Geophysical journal international subject index by volume 104–107

Aegean

Active tectonics of the north and central Aegean Sea (Taymaz, T., Jackson, J., McKenzie, D.), **106**, 433
On the resolving power of tomographic images in the Aegean area (Ligdas, C.N., Main, I.G.), **107**, 197

Alps

Results of NFP 20 seismic reflection profiling along the Alpine section of the European Geotraverse (EGT) (Valasek, P., Mueller, St., Frei, W., Holliger, K.), **105**, 85

Anisotropy

Detrital remanence, inclination errors, and anhysteretic remanence anisotropy, quantitative model and experimemtal results (Jackson, M.J., Banerjee, S.K., Marvin, J.A., Lu, R., Gruber, W.), **104**, 95
Crack distributions which account for a given seismic anisotropy (Hudson, J.A.), **104**, 517
Wave propagation through fluid-filled inclusions of various shapes: interpretation of extensive-dilatancy anisotropy (Crampin, S.), **104**, 611
Reflection/transmission coefficients and azimuthal anisotropy in marine seismic studies (Mallick, S., Neil Frazer, L.), **105**, 241
Inversion of teleseismic *S* particle motion for azimuthal anisotropy in the upper mantle: a feasibility study (Farra, V., Vinnik, L.P., Romanowicz, B., Kosarev, G.L., Kind, R.), **106**, 421
The traveltime perturbations for seismic body waves in factorized anisotropic inhomogeneous media (Červený, V., Simões-Filho, I.A.), **107**, 219
Green's tensor and radiation patterns of point sources in general anisotropic inhomogeneous elastic media (Ben-Menahem, A., Gibson Jr, R.L., Sena, A.G.), **107**, 297
A decade of shear-wave splitting in the Earth's crust: what does it mean? what use can we make of it? and what should we do next? (Crampin, S., Lovell, J.H.), **107**, 387
Prediction of lateral variability in fracture intensity using multicomponent shear-wave surface seismic as a precursor to horizontal drilling in the Austin Chalk (Mueller, M.C.), **107**, 409
Anisotropy survey for reservoir definition (Cliet, Ch., Brodov, L., Tikhonov, A., Marin, D., Michon, D.), **107**, 417
Estimating physical parameters of cracked–porous oil reservoirs by inverting shear-wave splitting (Brodov, L.U., Tikhonov, A.A., Chesnokov, E.M., Tertychnyi, V.V., Zatsepin, S.V.), **107**, 429
Paris Basin VSPs: case history establishing combinations of fine-layer (or lithologic) anisotropy and crack anisotropy from modelling shear wavefields near point singularities (Bush, I., Crampin, S.), **107**, 433
Fracture detection using crosshole surveys and reverse vertical seismic profiles at the Conoco Borehole Test Facility, Oklahoma (Liu, E., Crampin, S., Queen, J.H.), **107**, 449
Observations of shear-wave splitting from marine VSPs in the southern North Sea (Campden, D.A., Crampin, S.), **107**, 465
Comparision between natural fractures and fracture parameters derived from VSP (Kuwahara, Y., Ito, H., Kiguchi, T.), **107**, 475
Viability of shear-wave amplitude versus offset studies in anisotropic media (Yardley, G.S., Graham, G., Crampin, S.), **107**, 493
Overall properties of heterogeneous material (Hudson, J.A.), **107**, 505
The range of effects of azimuthal isotropy and EDA anisotropy in sedimentary basins (Wild, P., Crampin, S.), **107**, 513
Effects of point singularities on shear-wave propagation in sedimentary basins (Crampin, S.), **107**, 531
Dispersion of guided waves in thin anisotropic waveguides (Lou, M., Crampin, S.), **107**, 545
Thermal characteristics of anisotropic media with inclusions (Artemieva, I.M., Chesnokov, E.M.), **107**, 557
Effects of applied stress on effective elastic anisotropy in cracked solids (Chesnokov, E.M., Zatsepin, S.V.), **107**, 563
Inverting shear-wave polarizations for anisotropy using three-component offset VSPs: synthetic seismograms (MacBeth, C.), **107**, 571
Inversion for subsurface anisotropy using estimates of shear-wave splitting (MacBeth, C.), **107**, 585
Complex component analysis of shear-wave splitting: theory (Li, X.-Y., Crampin, S.), **107**, 597
Complex component analysis of shear-wave splitting: case studies (Li, X.-Y., Crampin, S.), **107**, 605
Deep borehole log evidence for fractal distribution of fractures in crystalline rock (Leary, P.), **107**, 615
P- and *SV*- wave transversely isotropic phase velocities analysis from VSP data (de Parscau, J.), **107**, 629
Azimuthal anisotropy analysis from shear VSPs (Shuck, E.L.), **107**, 639
Analysis of shear waves with respect to splitting near the San Andreas Fault (Mjelde, R.), **107**, 649
Observations of shear-wave polarizations from rockbursts in a South African gold field: an analysis of acceleration and velocity recordings (Graham, G., Crampin, S., Fernandez, L.M.), **107**, 661
Shear-wave anisotropy across the geothermal field of Milos, Aegean volcanic arc (Sachpazi, M., Hirn, A.), **107**, 673
Acoustic anisotropy related to anisotropic stress conditions during formation and unloading (Fjaer, E., Holt, R.M., Rathore, J.S., Åhlén, B.), **107**, 687
Scaled physical modelling of anisotropic wave propagation: multioffset profiles over an orthorhombic medium (Brown, J.R., Lawton, D.C., Cheadle, S.P.), **107**, 693
Reduction of the general fracture compliance matrix **Z** to only five independent elements (Berg, E., Hood, J.A., Fryer, G.J.), **107**, 703
P-wave sections in a realistic anisotropic lithosphere (Jacob, A.W.B., Bean, C.J., Nolte, B., Prodehl, C.), **107**, 709

APW (apparent polar wander)

The apparent polar wander path for the North China Block since the Jurassic (Zheng, Z., Kono, M., Tsunakawa, H., Kimura, G., Wei, Q., Zhu, X., Hao, T.), **104**, 29
A revised Palaeozoic apparent polar wander path for Southern Britain (Eastern Avalonia) (Trench, A., Torsvik, T.H.), **104**, 227
Palaeomagnetism of Devonian ring complexes from the Bayuda Desert, Sudan—new constraints on the apparent polar wander path for Gondwanaland (Bachtadse, V., Briden, J.C.), **104**, 635
The fit of polar wander curves by small circles using Marquardt's algorithm: statistical properties (Schott, J.J., Turlot, J.C., Thomann, J.), **105**, 731
Reply to comments by M. Idnurm on: 'A weighted least-squares fit of the Australian apparent polar wander path for the last 100 Myr' (Musgrave, R.J.), **106**, 695
The Lower Palaeozoic apparent polar wander path for Baltica: palaeomagnetic data from Silurian limestones of Gotland, Sweden (Trench, A., Torsvik, T.H.), **107**, 373

Archaeology

Archaeological investigation by electrical resistivity tomography: a preliminary study (Noel, M., Xu, B.), **107**, 95

Attenuation

Spherically symmetric attenuation within the Earth from normal mode data (Widmer, R., Masters, G., Gilbert, F.), **104**, 541
Waveform inversion of surface wave data: test of a new tool for systematic investigation of upper mantle structures (Léveque, J.J., Cara, M., Rouland, D.), **104**, 565
Q along the FENNOLORA profile (Havskov, J., Medhus, J.), **106**, 531
Seismic-wave attenuation operators for arbitrary *Q* (Fang, Y., Müller, G.), **106**, 703
Lateral variation and frequency dependence of coda-*Q* in the southern part of Iberia (Canas, J.A., Pujades, L., Badal, J., Payo, G., de Miguel, F., Vidal, F., Alguacil, G., Ibanez, J., Morales, J.), **107**, 57

Australia

Geodetic evidence for conjugate faulting during the 1988 Tennant Creek, Australia earthquake sequence (Bowman, J.R.), **107**, 47
Reply to comments by M. Idnurm on: 'A weighted least-squares fit of the Australian apparent polar wander path for the last 100 Myr' (Musgrave, R.J.), **106**, 695

***b*-values**

3-D spatial variation of *b*-values of magnitude–frequency distribution beneath the Kanto District, Japan (Ogato, Y., Imoto, M., Katsura, K.), **104**, 135

Body waves

A procedure for the systematic interpretation of body wave seismograms—I. Application to Moho depth and crustal properties (Clarke, T.J., Silver, P.G.), **104**, 41
Wavefield extrapolation of body waves for 3-D imaging of earthquake sources (Chang, W.-F., McMechan, G.A.), **106**, 85
Are long-period body wave coda caused by lateral heterogeneity? (Neele, F., Snieder, R.), **107**, 131

Borehole geophysics

Borehole electrical imaging and structural analysis in a granitic environment (Straub, A., Krückel, U., Gros, Y.), **106**, 635

Cainozoic

A palaeomagnetic study of Cainozoic basalts from Northern Nigeria (Garde, S.C., Ayeni, I.O.), **106**, 717

Calderas

Numerical modelling of caldera dynamical behaviour (Chery, J., Bonneville, A., Vilotte, J.P., Yuen, D.), **105**, 365

China

The apparent polar wander path for the North China Block since the Jurassic (Zheng, Z., Kono, M., Tsunakawa, H., Kimura, G., Wei, Q., Zhu, X., Hao, T.), **104**, 29

Coherence functions

General coherence functions for amplitude and phase fluctuations in a randomly heterogeneous medium (Chen, X., Aki, K.), **105**, 155

Collision belts

Geological significance of seismic reflections in collision belts (Bois, C.), **105**, 55

Continental deformation

Discussion of and correction to: Deformation of the NE Basin and Range Province: the response of the lithosphere to the Yellowstone plume? (Westaway, R.), **104**, 647
Comment on 'Deformation of the NE Basin and Range Province: the response of the lithosphere to the Yellowstone plume?' by R Westaway (Lamb, S.H.), **104**, 661
Reply to comment by S. H. Lamb on 'Deformation of the NE Basin and Range Province: the response of the lithosphere to the Yellowstone plume?' by R. Westaway (Westaway, R.), **104**, 663

Continental evolution

A unified view of craton evolution motivated by recent deep seismic reflection and refraction results (Nelson, K.D.), **105**, 25

Continental margins

Admittance signatures of rifted and transform margins: examples from eastern Canada (Verhoef, J., Jackson, H.R.), **105**, 229

Convection

Convection in a non-uniformly stratified fluid permeated by a non-uniform magnetic field (Fearn, D.R., Richardson, L.), **104**, 203
3-D convection with variable viscosity (Christensen, U., Harder, H.), **104**, 213
Boundary-layer model of mantle plumes with thermal and chemical diffusion and buoyancy (Liu, M., Chase, C.G.), **104**, 433
Flow duration of a dike constrained by palaeomagnetic data (Smith, B., Bonneville, A., Hamzaoui, R.), **106**, 621
Thermal equilibration of the Earth following a giant impact (Spohn, T., Schubert, G.), **107**, 163

Core – mantle boundary

Convection in a non-uniformly stratified fluid permeated by a non-uniform magnetic field (Fearn, D.R., Richardson, L.), **104**, 203

Covariance functions

Density–gravity covariance functions produced by overlapping rectangular blocks of constant density (Tscherning, C.C.), **105**, 771

Cracked media

Crack distributions which account for a given seismic anisotropy (Hudson, J.A.), **104**, 517
Paris Basin VSPs: case history establishing combinations of fine-layer (or lithologic) anisotropy and crack anisotropy from modelling shear wavefields near point singularities (Bush, I., Crampin, S.), **107**, 433
Overall properties of heterogeneous material (Hudson, J.A.), **107**, 505
Effects of applied stress on effective elastic anisotropy in cracked solids (Chesnokov, E.M., Zatsepin, S.V.), **107**, 563
Deep borehole log evidence for fractal distribution of fractures in crystalline rock (Leary, P.), **107**, 615

Cracks

A kinetic model of crack fusion (Czechowski, Z.), **104**, 419
The dipping antiplane crack (Davis, P.M., Knopoff, L.), **106**, 581
A modified Griffith criterion for the evolution of damage with a fractal distribution of crack lengths: application to seismic event rates and *b*-values (Main, I.G.), **107**, 353
Prediction of lateral variability in fracture intensity using multicomponent shear-wave surface seismic as a precursor to horizontal drilling in the Austin Chalk (Mueller, M.C.), **107**, 409
Anisotropy survey for reservoir definition (Cliet, Ch., Brodov, L., Tikhonov, A., Marin, D., Michon, D.), **107**, 417
Estimating physical parameters of cracked–porous oil reservoirs by inverting shear-wave splitting (Brodov, L.U., Tikhonov, A.A., Chesnokov, E.M., Tertychnyi, V.V., Zatsepin, S.V.), **107**, 429
Fracture detection using crosshole surveys and reverse vertical seismic profiles at the Conoco Borehole Test Facility, Oklahoma (Liu, E., Crampin, S., Queen, J.H.), **107**, 449
Comparision between natural fractures and fracture parameters derived from VSP (Kuwahara, Y., Ito, H., Kiguchi, T.), **107**, 475
Characterization of a subsurface artificial fracture by the triaxial shear shadow method (Niitsuma, H., Saito, H.), **107**, 485
Viability of shear-wave amplitude versus offset studies in anisotropic media (Yardley, G.S., Graham, G., Crampin, S.), **107**, 493
Analysis of shear waves with respect to splitting near the San Andreas Fault (Mjelde, R.), **107**, 649
Observations of shear-wave polarizations from rockbursts in a South African gold field: an analysis of acceleration and velocity recordings (Graham, G., Crampin, S., Fernandez, L.M.), **107**, 661
Shear-wave anisotropy across the geothermal field of Milos, Aegean volcanic arc (Sachpazi, M., Hirn, A.), **107**, 673
Reduction of the general fracture compliance matrix **Z** to only five independent elements (Berg, E., Hood, J.A., Fryer, G.J.), **107**, 703

Cratering

Depth of basalt fill and transient crater geometry for the Imbrium mascon basin (Mullis, A.M.), **105**, 777

Crustal deformation

Numerical modelling of caldera dynamical behaviour (Chery, J., Bonneville, A., Vilotte, J.P., Yuen, D.), **105**, 365

Crustal structure

Crustal structure of Israel: constraints from teleseismic and gravity data (Hofstetter, A., Feldman, L., Rotstein, Y.), **104**, 371
Seismic reflections from the Earth's crust; comparative studies of tectonic patterns (Meissner, R., Brown, L.), **105**, 1
Continental collisions and seismic signature (Meissner, R., Wever, Th., Sadowiak, P.), **105**, 15
Deep seismic reflectivity patterns in specific tectonic units of Western and Central Europe (Sadowiak, P., Wever, T., Meissner, R.), **105**, 45
Deep crustal features of the Celtic Sea from complementary processing on the SWAT data (Dyment, J., Bano, M.), **105**, 71
Results of NFP 20 seismic reflection profiling along the Alpine section of the European Geotraverse (EGT) (Valasek, P., Mueller, St., Frei, W., Holliger, K.), **105**, 85
Seismic heterogeneity of Mt Etna: structure and activity (Hirn, A., Nercessian, A., Sapin, M., Ferrucci, F., Wittlinger, G.), **105**, 139
Implications of the distribution of seismicity near Lake Bogoria in the Kenya Rift (Young, P.A.V., Maguire, P.K.H., Laffoley, N.d'A., Evans, J.R.), **105**, 665
Results of the DEKORP 1 (BELCORP – DEKORP) deep seismic reflection studies in the western part of the Rhenish Massif (DEKORP Research Group.), **106**, 203
Crustal structure of the Madeira – Tore Rise, eastern North Atlantic—results of a DOBS wide-angle and normal incidence seismic experiment in the Josephine Seamount region (Peirce, C., Barton, P.J.), **106**, 357
A decade of shear-wave splitting in the Earth's crust: what does it mean? what use can we make of it? and what should we do next? (Crampin, S., Lovell, J.H.), **107**, 387
Characterization of a subsurface artificial fracture by the triaxial shear shadow method (Niitsuma, H., Saito, H.), **107**, 485
Deep borehole log evidence for fractal distribution of fractures in crystalline rock (Leary, P.), **107**, 615

Deep seismic reflection

Seismic reflections from the Earth's crust; comparative studies of tectonic patterns (Meissner, R., Brown, L.), **105**, 1
A new map of crustal 'terranes' in the United States from COCORP deep seismic reflection profiling (Brown, L.D.), **105**, 3
Continental collisions and seismic signature (Meissner, R., Wever, Th., Sadowiak, P.), **105**, 15
A unified view of craton evolution motivated by recent deep seismic reflection and refraction results (Nelson, K.D.), **105**, 25
Energy histograms for the characterization of deep reflection seismic profiles (Bittner, R., Wever, Th.), **105**, 37
Deep seismic reflectivity patterns in specific tectonic units of Western and Central Europe (Sadowiak, P., Wever, T., Meissner, R.), **105**, 45
Geological significance of seismic reflections in collision belts (Bois, C.), **105**, 55
Deep crustal features of the Celtic Sea from complementary processing on the SWAT data (Dyment, J., Bano, M.), **105**, 71
Results of NFP 20 seismic reflection profiling along the Alpine section of the European Geotraverse (EGT) (Valasek, P., Mueller, St., Frei, W., Holliger, K.), **105**, 85
Results of the DEKORP 1 (BELCORP – DEKORP) deep seismic reflection studies in the western part of the Rhenish Massif (DEKORP Research Group.), **106**, 203

Deformation

Discussion of and correction to: Deformation of the NE Basin and Range Province: the response of the lithosphere to the Yellowstone plume? (Westaway, R.), **104**, 647
Comment on 'Deformation of the NE Basin and Range Province: the response of the lithosphere to the Yellowstone plume?' by R Westaway (Lamb, S.H.), **104**, 661
Reply to comment by S. H. Lamb on 'Deformation of the NE Basin and Range Province: the response of the lithosphere to the Yellowstone plume?' by R. Westaway (Westaway, R.), **104**, 663
A model of thick plate deformation and its application to the isostatic movements due to surface, subsurface and internal loadings (Zhou, S.), **105**, 381
The deep structure of Gorringe Bank (NE Atlantic) and its surrounding area (Bergeron, A., Bonnin, J.), **105**, 491
Poroelasticity: parameters reviewed (Kümpel, H.-J.), **105**, 783

Diffraction

Multifold phase space path integral synthetic seismograms (Sen, M.K., Frazer, L.N.), **104**, 479

Dislocation

Potential and gravity changes raised by point dislocation (Okubo, S.), **105**, 573

Earthquake location

Traveltimes for global earthquake location and phase identification (Kennett, B.L.N., Engdahl, E.R.), **105**, 429

Earthquake prediction

Long-term earthquake clustering (Kagan, Y.Y., Jackson, D.D.), **104**, 117
An alternative scenario for earthquake prediction experiments (Crampin, S.), **107**, 185
Application of a mixture distribution of extreme values to earthquake magnitudes in Iraq and conterminous regions (Fahmi, K.J., Al Abbasi, J.N.), **107**, 209

Earthquake seismology

Radiation pattern of crustal phases of New England earthquakes (Zhao, X., Ebel, J.E.), **106**, 647

Earthquake source mechanism

A theoretical investigation of source, path and site effects during the 1986 Kalamata earthquake (Greece) (Gariel, J - C., Bard, P - Y., Pitilakis, K.), **104**, 165
Fault mechanisms from near-source data: joint inversion of *S* polarizations and *P* polarities (Zollo, A., Bernard, P.), **104**, 441

Earthquake source parameters

Spectral characteristics and source parameters of microearthquakes from the Mt Cameroon volcanic region, West Africa (Ambeh, W.B., Fairhead, J.D.), **106**, 229

Earthquake sources

Wavefield extrapolation of body waves for 3-D imaging of earthquake sources (Chang, W.-F., McMechan, G.A.), **106**, 85
3-D rotation of double-couple earthquake sources (Kagan, Y.Y.), **106**, 709

Earthquake statistics

Single-link cluster analysis, synthetic earthquake catalogues, and aftershock identification (Davis, S.D., Frohlich, C.), **104**, 289
Seismic moment distribution (Kagan, Y.Y.), **106**, 123

Earthquakes

A variable slip fault model for the 1908 Messina Straits (Italy) earthquake, by inversion of levelling data (De Natale, G., Pingue, F.), **104**, 73
Tearing of the subducted Australian plate during the Te Anau, New Zealand, earthquake of 1988 June 3 (Reyners, M., Gledhill, K., Waters, D.), **104**, 105
Long-term earthquake clustering (Kagan, Y.Y., Jackson, D.D.), **104**, 117
A theoretical investigation of source, path and site effects during the 1986 Kalamata earthquake (Greece) (Gariel, J - C., Bard, P - Y., Pitilakis, K.), **104**, 165
Single-station decomposition of seismograms for subevent time histories (Di Bona, M., Boatwright, J.), **105**, 103
A correlation between earthquakes and eruptive phases at Mt Etna: an example and past occurrences (Nercessian, A., Hirn, A., Sapin, M.), **105**, 131
Earthquake hazard in the Kenya Rift: the Subukia earthquake 1928 (Ambraseys, N.N.), **105**, 253
Moment tensor inversion of the 1983 January 17 Kefallinia event of Ionian islands (Greece) (Kiratzi, A.A., Langston, C.A.), **105**, 529
Earthquake distribution in the subduction zone off eastern Hokkaido, Japan, deduced from ocean-bottom seismographic and land observations (Iwasaki, T., Hirata, N., Kanazawa, T., Urabe, T., Motoya, Y., Shimamura, H.), **105**, 693
Wavefield extrapolation of body waves for 3-D imaging of earthquake sources (Chang, W.-F., McMechan, G.A.), **106**, 85
Seismic moment distribution (Kagan, Y.Y.), **106**, 123
Likelihood analysis of earthquake catalogues (Kagan, Y.Y.), **106**, 135
Spectral discrimination between Soviet explosions and earthquakes using short-period array data (Taylor, S.R., Marshall, P.D.), **106**, 265
Moment tensor inversion of local earthquake data—I. Investigation of the method and its numerical stability with model calculations (Koch, K.), **106**, 305
Moment tensor inversion of local earthquake data—II. Application to aftershocks of the May 1980 Mammoth Lakes earthquakes (Koch, K.), **106**, 321
Active tectonics of the north and central Aegean Sea (Taymaz, T., Jackson, J., McKenzie, D.), **106**, 433
Source parameters of large earthquakes in the East Anatolian Fault Zone (Turkey) (Taymaz, T., Eyidoğan, H., Jackson, J.), **106**, 537
3-D rotation of double-couple earthquake sources (Kagan, Y.Y.), **106**, 709
Geodetic evidence for conjugate faulting during the 1988 Tennant Creek, Australia earthquake sequence (Bowman, J.R.), **107**, 47
An alternative scenario for earthquake prediction experiments (Crampin, S.), **107**, 185
Application of a mixture distribution of extreme values to earthquake magnitudes in Iraq and conterminous regions (Fahmi, K.J., Al Abbasi, J.N.), **107**, 209
Effects of source radiation patterns on the phase $S_{670}P$ beneath the Tonga subduction zone (Wicks Jr., C.W., Richards, M.A.), **107**, 279
Effects of source radiation patterns on the phase $S_{670}P$ beneath the Tonga subduction zone (Wicks Jr, C.W., Richards,M.A.), **107**, 279
Stress corrosion constitutive laws as a possible mechanism of intermediate-term and short-term seismic quiescence (Main, I.G., Meredith, P.G.), **107**, 363

Earth's core

Convection in a non-uniformly stratified fluid permeated by a non-uniform magnetic field (Fearn, D.R., Richardson, L.), **104**, 203
Mapping the fluid flow and shear near the core surface using the radial and horizontal components of the magnetic field (Jackson, A., Bloxham, J.), **105**, 199
Addendum and corrigendum to 'Elastic boundary conditions in long-period core oscillations' by D.E. Smylie, A.M.K. Szeto and Kachishige Sato (Smylie, D.E., Szeto, A.M.K., Sato, K.), **105**, 553
Constraining core undertones using stacked IDA gravity records (Cummins, P., Wahr, J.M., Agnew, D.C., Tamura, Y.), **106**, 189
On the calculation of low-frequency oscillations of the Earth's core (Diakonov, S.), **107**, 291

Earth's mantle

Post-glacial relaxation of a viscously stratified compressible mantle (Wu, J., Yuen, D.A.), **104**, 331
Boundary-layer model of mantle plumes with thermal and chemical diffusion and buoyancy (Liu, M., Chase, C.G.), **104**, 433
Upper mantle models and the thickness of the continental lithosphere (Hales, A.L.), **105**, 355

Earth's rotation

The Earth's equatorial principal axes and moments of inertia (Liu, H.S., Chao, B.F.), **106**, 699

Eigentheory

On covariances of eigenvalues and eigenvectors of second-rank symmetric tensors (Soler, T., van Gelder, B.H.W.), **105**, 537

Elastic wave theory

Reflection and transmission of elastic waves at a loosely bonded interface between an elastic solid and liquid-saturated porous solid (Vashisth, A.K., Sharma, M.D., Gogna, M.L.), **105**, 601
Generalized Born scattering of elastic waves in 3-D media (Coates, R.T., Chapman, C.H.), **107**, 231
Overall properties of heterogeneous material (Hudson, J.A.), **107**, 505

Elastodynamics

The gravito-elastodynamics of a pre-stressed elastic earth (Vermeersen, L.L.A., Vlaar, N.J.), **104**, 555
Comment on 'The gravito-elastodynamics of a pre-stressed elastic earth' by L.L.A. Vermeersen and N.J. Vlaar (Geller, R.J.), **106**, 499
Reply to 'Comment on 'The gravito-elastodynamics of a pre-stressed elastic earth' by L.L.A. Vermeersen and N.J. Vlaar' by R.J. Geller (Vermeersen, L.L.A., Vlaar, N.J.), **106**, 505

Electrical conductivity

Application of conformal mapping to 2-D conductivity structures with non-uniform primary sources (Janhunen, P., Viljanen, A.), **105**, 185
Induction excitation of deep 3-D conducting zones (Vanyan, L.L., Yegorov, I.V., Shilovsky, A.P.), **105**, 295
Theoretical controlled-source electromagnetic responses of fast-spreading mid-ocean ridge models (Everett, M.E., Edwards, R.N.), **105**, 313
A new look at an old problem: magnetotelluric modelling of 1-D structures (Fischer, G., Weibel, P.), **106**, 161
Magnetotelluric appraisal using simulated annealing (Dosso, S.E., Oldenburg, D.W.), **106**, 379
Comment on 'Magnetic appraisal using simulated annealing' by S.E. Dosso and D.W. Oldenburg (Constable, S.), **106**, 387
Reply to 'Comment on 'Magnetotelluric appraisal using simulated annealing'' by S. Constable (Dosso, S.E., Oldenburg, S.W.), **106**, 389

Electromagnetic induction

Induction excitation of deep 3-D conducting zones (Vanyan, L.L., Yegorov, I.V., Shilovsky, A.P.), **105**, 295
On the synthesis of a large geomagnetic array from small overlapping arrays (Egbert, G.D.), **106**, 37

Electromagnetic modelling

Theoretical controlled-source electromagnetic responses of fast-spreading mid-ocean ridge models (Everett, M.E., Edwards, R.N.), **105**, 313

Europe

Delay-time tomography of the upper mantle below Europe, the Mediterranean, and Asia Minor (Spakman, W.), **107**, 309

Explosion seismology

Spectral discrimination between Soviet explosions and earthquakes using short-period array data (Taylor, S.R., Marshall, P.D.), **106**, 265

Fault motions

Earthquake hazard in the Kenya Rift: the Subukia earthquake 1928 (Ambraseys, N.N.), **105**, 253

Fault slip

A variable slip fault model for the 1908 Messina Straits (Italy) earthquake, by inversion of levelling data (De Natale, G., Pingue, F.), **104**, 73
Discussion of and correction to: Deformation of the NE Basin and Range Province: the response of the lithosphere to the Yellowstone plume? (Westaway, R.), **104**, 647
Comment on 'Deformation of the NE Basin and Range Province: the response of the lithosphere to the Yellowstone plume?' by R Westaway (Lamb, S.H.), **104**, 661
Reply to comment by S. H. Lamb on 'Deformation of the NE Basin and Range Province: the response of the lithosphere to the Yellowstone plume?' by R. Westaway (Westaway, R.), **104**, 663

Faulting

Active tectonics of the north and central Aegean Sea (Taymaz, T., Jackson, J., McKenzie, D.), **106**, 433
A crack model of afterslip events on shallow faults (Belardinelli, M.E., Bonafede, M.), **106**, 521
Source parameters of large earthquakes in the East Anatolian Fault Zone (Turkey) (Taymaz, T., Eyidoğan, H., Jackson, J.), **106**, 537
Geodetic evidence for conjugate faulting during the 1988 Tennant Creek, Australia earthquake sequence (Bowman, J.R.), **107**, 47

Finite difference method

Finite difference computation of traveltimes in very contrasted velocity models: a massively parallel approach and its associated tools (Podvin, P., Lecomte, I.), **105**, 271

Fluid dynamics

Viscoelastodynamics of a stratified, compressible planet: incremental field equations and short- and long-time asymptotes (Wolf, D.), **104**, 401

Fluid flow

Mapping the fluid flow and shear near the core surface using the radial and horizontal components of the magnetic field (Jackson, A., Bloxham, J.), **105**, 199

Fractals

Multifractal analysis of spatial distribution of microearthquakes in the Kanto region (Hirata, T., Imoto, M.), **107**, 155
A modified Griffith criterion for the evolution of damage with a fractal distribution of crack lengths: application to seismic event rates and *b*-values (Main, I.G.), **107**, 353
Deep borehole log evidence for fractal distribution of fractures in crystalline rock (Leary, P.), **107**, 615

Fractures

Reflection/transmission coefficients and azimuthal anisotropy in marine seismic studies (Mallick, S., Neil Frazer, L.), **105**, 241
Mapping subsurface fractures by radio-frequency holography: a simulation (Lorrain, P.), **106**, 333
A crack model of afterslip events on shallow faults (Belardinelli, M.E., Bonafede, M.), **106**, 521
Borehole electrical imaging and structural analysis in a granitic environment (Straub, A., Krückel, U., Gros, Y.), **106**, 635

Free oscillations

The relative amplitudes of mantle heterogeneity in *P* velocity, *S* velocity and density from free-oscillation data (Li, X.-D., Giardini, D., Woodhouse, J.H.), **105**, 649

Normal mode multiplet coupling along a dispersion branch (Um, J., Dahlen, F.A., Park, J.), **106**, 11
Multiple moment expansion of fully coupled aspherical earth seismograms (Pollitz, F.F.), **106**, 275

Geoid

Spherical harmonic representation of the gravitational potential of discrete spherical mass elements (Sutton, S.T., Pollack, H.N., Jackson, M.J.), **107**, 77
On the distribution of anomalous mass within the Earth: forward models of the gravitational potential spectrum using ensembles of discrete mass elements (Jackson, M.J., Pollack, H.N., Sutton, S.T.), **107**, 83

Geoid anomalies

Interpretations of geoid anomalies around the Iceland hotspot (Marquart, G.), **106**, 149
Topography and geoid anomalies due to density heterogeneities at the base of the thermal lithosphere: application to oceanic swells and small-wavelength geoid lineations (Fleitout, L., Moriceau, C.), **107**, 265

Geomagnetic field

Adaptive smoothing method for computer derivation of *K*-indices (Nowozynski, K., Ernst, T., Jankowski, J.), **104**, 85
Convection in a non-uniformly stratified fluid permeated by a non-uniform magnetic field (Fearn, D.R., Richardson, L.), **104**, 203
Electric currents in the ocean induced by the geomagnetic Sq field and their effects on the estimation of mantle conductivity (Takeda, M.), **104**, 381
Mapping the fluid flow and shear near the core surface using the radial and horizontal components of the magnetic field (Jackson, A., Bloxham, J.), **105**, 199
Translated origin spherical cap harmonic analysis (De Santis, A.), **106**, 253

Geomagnetism

Adaptive smoothing method for computer derivation of *K*-indices (Nowozynski, K., Ernst, T., Jankowski, J.), **104**, 85
On the synthesis of a large geomagnetic array from small overlapping arrays (Egbert, G.D.), **106**, 37

Geothermics

Palaeogeothermics in the Czechoslovak part of the Upper Silesian Basin (Safanda, J., Honek, J., Weiss, G., Bunterbarth, G.), **104**, 625
Mathematical model of a Hot Dry Rock system (Heuer, N., Küpper, T., Windelberg, D.), **105**, 659

Glacial rebound

A complete formalism for the inversion of post-glacial rebound data: resolving power analysis (Mitrovica, J.X., Peltier, W.R.), **104**, 267

Gravity

Singularities in gravity computation for vertical cylinders and prisms (Kwok , Y.-K.), **104**, 1
The gravito-elastodynamics of a pre-stressed elastic earth (Vermeersen, L.L.A., Vlaar, N.J.), **104**, 555
Admittance signatures of rifted and transform margins: examples from eastern Canada (Verhoef, J., Jackson, H.R.), **105**, 229
The deep structure of Gorringe Bank (NE Atlantic) and its surrounding area (Bergeron, A., Bonnin, J.), **105**, 491
Potential and gravity changes raised by point dislocation (Okubo, S.), **105**, 573
Density–gravity covariance functions produced by overlapping rectangular blocks of constant density (Tscherning, C.C.), **105**, 771
Constraining core undertones using stacked IDA gravity records (Cummins, P., Wahr, J.M., Agnew, D.C., Tamura, Y.), **106**, 189
On the calibration of a superconducting gravimeter using absolute gravity measurements (Hinderer, J., Florsch, N., Mäkinen, J., Legros, H., Faller, J.E.), **106**, 491
Comment on 'The gravito-elastodynamics of a pre-stressed elastic earth' by L.L.A. Vermeersen and N.J. Vlaar (Geller, R.J.), **106**, 499
Reply to 'Comment on 'The gravito-elastodynamics of a pre-stressed elastic earth' by L.L.A. Vermeersen and N.J. Vlaar' by R.J. Geller (Vermeersen, L.L.A., Vlaar, N.J.), **106**, 505
Deformation-induced gravity changes in volcanic regions (Wong, T.-f., Walsh, J.B.), **106**, 513
Tidal gravity and ocean tide loading in Europe (Baker, T.F., Edge, R.J., Jeffries, G.), **107**, 1
Obtaining Earth surface gravity disturbances from a GPS-based 'high–low' satellite-to-satellite tracking experiment (Gleason, D.M.), **107**, 13
Spherical harmonic representation of the gravitational potential of discrete spherical mass elements (Sutton, S.T., Pollack, H.N., Jackson, M.J.), **107**, 77
On the distribution of anomalous mass within the Earth: forward models of the gravitational potential spectrum using ensembles of discrete mass elements (Jackson, M.J., Pollack, H.N., Sutton, S.T.), **107**, 83

Gravity field

Simultaneous estimation of the gravity field and sea surface topography from satellite altimeter data by least-squares collocation (Knudsen, P.), **104**, 307

Greece

A theoretical investigation of source, path and site effects during the 1986 Kalamata earthquake (Greece) (Gariel, J - C., Bard, P - Y., Pitilakis, K.), **104**, 165
Moment tensor inversion of the 1983 January 17 Kefallinia event of Ionian islands (Greece) (Kiratzi, A.A., Langston, C.A.), **105**, 529

Green's functions

Single-station decomposition of seismograms for subevent time histories (Di Bona, M., Boatwright, J.), **105**, 103

Heat flow

Palaeogeothermics in the Czechoslovak part of the Upper Silesian Basin (Safanda, J., Honek, J., Weiss, G., Bunterbarth, G.), **104**, 625
Thermal conductivity and well logs: a case study in the Paris basin (Demongodin, L., Pinoteau, B., Vasseur, G., Gable, R.), **105**, 677
The origin of terrestrial heat flow (Vacquier, V.), **106**, 199
Lithospheric thermal structure in the Baltic shield (Pasquale, V., Verdoya, M., Chiozzi, P.), **106**, 611
Flow duration of a dike constrained by palaeomagnetic data (Smith, B., Bonneville, A., Hamzaoui, R.), **106**, 621
Application of the boundary element method to a terrestrial heat flow problem (Chen, Y., Beck, A.E.), **107**, 25

Hotspots

Interpretations of geoid anomalies around the Iceland hotspot (Marquart, G.), **106**, 149

Iceland

Interpretations of geoid anomalies around the Iceland hotspot (Marquart, G.), **106**, 149

Inhomogeneous media

WKBJ modelling for smoothly varying 3-D media (Singh, S.C., Tarantola, A.), **106**, 391
Green's tensor and radiation patterns of point sources in general anisotropic inhomogeneous elastic media (Ben-Menahem, A., Gibson Jr, R.L., Sena, A.G.), **107**, 297

Inverse problem

Inversion of geophysical data using an approximate inverse mapping (Oldenburg, D.W., Ellis, R.G.), **105**, 325

Inversion

A procedure for the systematic interpretation of body wave seismograms—I. Application to Moho depth and crustal properties (Clarke, T.J., Silver, P.G.), **104**, 41
A variable slip fault model for the 1908 Messina Straits (Italy) earthquake, by inversion of levelling data (De Natale, G., Pingue, F.), **104**, 73
A complete formalism for the inversion of post-glacial rebound data: resolving power analysis (Mitrovica, J.X., Peltier, W.R.), **104**, 267
Fault mechanisms from near-source data: joint inversion of *S* polarizations and *P* polarities (Zollo, A., Bernard, P.), **104**, 441
Inversion for laterally heterogeneous earth structure using a laterally heterogeneous starting model: preliminary results (Hara, T., Tsuboi, S., Geller, R.J.), **104**, 523
Waveform inversion of surface wave data: test of a new tool for systematic investigation of upper mantle structures (Léveque, J.J., Cara, M., Rouland, D.), **104**, 565
A new 3-D inversion algorithm for magnetic total field anomalies (Zeyen, H., Pous, J.), **104**, 583
Wave equation inversion of skeletalized geophysical data (Luo, Y., Schuster, G.T.), **105**, 289
Inversion of geophysical data using an approximate inverse mapping (Oldenburg, D.W., Ellis, R.G.), **105**, 325
Spatial dealiasing of 3-D seismic reflection data (Ronen, S., Sorin, V., Bale, R.), **105**, 503
Moment tensor inversion of the 1983 January 17 Kefallinia event of Ionian islands (Greece) (Kiratzi, A.A., Langston, C.A.), **105**, 529
A pattern recognition approach to geophysical inversion using neural nets (Raiche, A.), **105**, 629
A 2-D synthetic study of global traveltime tomography (Gudmundsson, O., Clayton, R.W.), **106**, 53
Full-wavefield inversion of wide-aperture *SH* and Love wave data (Sun, R., McMechan, G.A.), **106**, 67
Interpretation of magnetotelluric sounding data for the 2-D inhomogeneous model of the Earth (Porokhova, L.N., Morozov, L.A., Vardanyants, I.L.), **106**, 77
Moment tensor inversion of local earthquake data—I. Investigation of the method and its numerical stability with model calculations (Koch, K.), **106**, 305
Moment tensor inversion of local earthquake data—II. Application to aftershocks of the May 1980 Mammoth Lakes earthquakes (Koch, K.), **106**, 321
Inversion of teleseismic *S* particle motion for azimuthal anisotropy in the upper mantle: a feasibility study (Farra, V., Vinnik, L.P., Romanowicz, B., Kosarev, G.L., Kind, R.), **106**, 421
The similitude equation in magnetotelluric inversion (Dosso, S.E., Oldenburg, D.W.), **106**, 507
Measurements and modelling of possible mantle constituents from a long-line seismic refraction experiment in the West Philippine Basin (Goodman, D., Dale Bibee, L.), **106**, 667
Delay-time tomography of the upper mantle below Europe, the Mediterranean, and Asia Minor (Spakman, W.), **107**, 309
Estimating physical parameters of cracked–porous oil reservoirs by inverting shear-wave splitting (Brodov, L.U., Tikhonov, A.A., Chesnokov, E.M., Tertychnyi, V.V., Zatsepin, S.V.), **107**, 429
Inverting shear-wave polarizations for anisotropy using three-component offset VSPs: synthetic seismograms (MacBeth, C.), **107**, 571
Inversion for subsurface anisotropy using estimates of shear-wave splitting (MacBeth, C.), **107**, 585
P- and *SV*- wave transversely isotropic phase velocities analysis from VSP data (de Parscau, J.), **107**, 629

Isostasy

The deep structure of Gorringe Bank (NE Atlantic) and its surrounding area (Bergeron, A., Bonnin, J.), **105**, 491

Israel

Crustal structure of Israel: constraints from teleseismic and gravity data (Hofstetter, A., Feldman, L., Rotstein, Y.), **104**, 371

Japan

Rapid rotation of southwest Japan—palaeomagnetism and K–Ar ages of Miocene volcanic rocks of southwest Japan (Otofuji, Y., Itaya, T., Matsuda, T.), **105**, 397

Layered media

The pseudo-primary field due to a point-source in a finely layered medium (de Hoop, M.V., Chang, H.-W., Burridge, R.), **104**, 489
2-D reflectivity method and synthetic seismograms for irregularly layered structures—II. Invariant embedding approach (Koketsu, K., Kennett, B.L.N., Takenaka, H.), **105**, 119

Lithosphere

Upper mantle models and the thickness of the continental lithosphere (Hales, A.L.), **105**, 355
A model of thick plate deformation and its application to the isostatic movements due to surface, subsurface and internal loadings (Zhou, S.), **105**, 381
The deep structure of Gorringe Bank (NE Atlantic) and its surrounding area (Bergeron, A., Bonnin, J.), **105**, 491
3-D configuration of subducted lithosphere in the western Pacific (Chiu, J.-M., Isacks, B.L., Cardwell, R.K.), **106**, 99
Lithospheric thermal structure in the Baltic shield (Pasquale, V., Verdoya, M., Chiozzi, P.), **106**, 611
Topography and geoid anomalies due to density heterogeneities at the base of the thermal lithosphere: application to oceanic swells and small-wavelength geoid lineations (Fleitout, L., Moriceau, C.), **107**, 265
P-wave sections in a realistic anisotropic lithosphere (Jacob, A.W.B., Bean, C.J., Nolte, B., Prodehl, C.), **107**, 709

Magma flow

Deformation-induced gravity changes in volcanic regions (Wong, T.-f., Walsh, J.B.), **106**, 513

Magnetic anomalies

A new 3-D inversion algorithm for magnetic total field anomalies (Zeyen, H., Pous, J.), **104**, 583

A 65 Ma palaeomagnetic pole for the Pacific plate from the skewness of magnetic anomalies 27r – 31 (Acton, G.D., Gordon, R.G.), **106**, 407

Magnetite

A direct comparison of the properties of CRM and VRM in the low-temperature oxidation of magnetite (Gapeev, A.K., Gribov, S.K., Dunlop, D.J., Özdemir, Ö., Shcherbakov, V.P.), **105**, 407

Magnetization

The magnetization process in monoclinic pyrrhotite (Fe_7S_8) particles containing few domains (Menyeh, A., O'Reilly, W.), **104**, 387
Deconvolution of long-core palaeomagnetic measurements—spline therapy for the linear problem (Constable, C., Parker, R.), **104**, 453
Flow duration of a dike constrained by palaeomagnetic data (Smith, B., Bonneville, A., Hamzaoui, R.), **106**, 621
Ordovician magnetostatigraphy: Llanvirn–Caradoc limestones of the Baltic platform (Torsvik, T.H., Trench, A.), **107**, 171

Magnetostratigraphy

Magnetostratigraphy of the Miocene-Pleistocene Surai Khola Siwaliks in West Nepal (Appel, E., Rösler, W., Corvinus, G.), **105**, 191
Ordovician magnetostatigraphy: Llanvirn–Caradoc limestones of the Baltic platform (Torsvik, T.H., Trench, A.), **107**, 171

Magnetotellurics

A magnetotelluric survey on Manitoulin Island and Bruce Peninsula along GLIMPCE seismic line J: black shales mask the Grenville Front (Mareschal, M., Kurtz, R.D., Chouteau, M., Chakridi, R.), **105**, 173
Inversion of geophysical data using an approximate inverse mapping (Oldenburg, D.W., Ellis, R.G.), **105**, 325
Interpretation of magnetotelluric sounding data for the 2-D inhomogeneous model of the Earth (Porokhova, L.N., Morozov, L.A., Vardanyants, I.L.), **106**, 77
A new look at an old problem: magnetotelluric modelling of 1-D structures (Fischer, G., Weibel, P.), **106**, 161
Magnetotelluric appraisal using simulated annealing (Dosso, S.E., Oldenburg, D.W.), **106**, 379
Comment on 'Magnetic appraisal using simulated annealing' by S.E. Dosso and D.W. Oldenburg (Constable, S.), **106**, 387
Reply to 'Comment on 'Magnetotelluric appraisal using simulated annealing'' by S. Constable (Dosso, S.E., Oldenburg, S.W.), **106**, 389
The similitude equation in magnetotelluric inversion (Dosso, S.E., Oldenburg, D.W.), **106**, 507

Mantle

Post-glacial relaxation of a viscously stratified compressible mantle (Wu, J., Yuen, D.A.), **104**, 331
Upper mantle models and the thickness of the continental lithosphere (Hales, A.L.), **105**, 355
The relative amplitudes of mantle heterogeneity in *P* velocity, *S* velocity and density from free-oscillation data (Li, X.-D., Giardini, D., Woodhouse, J.H.), **105**, 649
Shear-velocity structure of the crust and upper mantle beneath the Tibetan Plateau and southeastern China (Zhao, L.-S., Helmberger, D.V., Harkrider, D.G.), **105**, 713
Broadband observations of *PS* conversions from the upper mantle in Eurasia (Stammler, K., Kind, R., Kosarev, G.L., Plesinger, A., Horálek, J., Qiyuan, L., Vinnik, L.-P.), **105**, 801
Lithospheric thermal structure in the Baltic shield (Pasquale, V., Verdoya, M., Chiozzi, P.), **106**, 611
Measurements and modelling of possible mantle constituents from a long-line seismic refraction experiment in the West Philippine Basin (Goodman, D., Dale Bibee, L.), **106**, 667
Effects of source radiation patterns on the phase $S_{670}P$ beneath the Tonga subduction zone (Wicks Jr, C.W., Richards,M.A.), **107**, 279
Delay-time tomography of the upper mantle below Europe, the Mediterranean, and Asia Minor (Spakman, W.), **107**, 309

Mantle compressibility

Post-glacial relaxation of a viscously stratified compressible mantle (Wu, J., Yuen, D.A.), **104**, 331

Mantle conductivity

Electric currents in the ocean induced by the geomagnetic Sq field and their effects on the estimation of mantle conductivity (Takeda, M.), **104**, 381

Mantle discontinuities

Broadband observations of *PS* conversions from the upper mantle in Eurasia (Stammler, K., Kind, R., Kosarev, G.L., Plesinger, A., Horálek, J., Qiyuan, L., Vinnik, L.-P.) **105**, 801

Mantle plumes

Boundary-layer model of mantle plumes with thermal and chemical diffusion and buoyancy (Liu, M., Chase, C.G.), **104**, 433
Vertical structure of the head of a cylindrical mantle plume from a model of two-phase flow with melting (Yinting, L., Spohn, T.), **107**, 103

Mantle structure

Inferring the viscosity and the 3-D density structure of the mantle from geoid, topography and plate velocities (Ricard, Y., Wuming, B.), **105**, 561

Mantle viscosity

A complete formalism for the inversion of post-glacial rebound data: resolving power analysis (Mitrovica, J.X., Peltier, W.R.), **104**, 267
Inferring the viscosity and the 3-D density structure of the mantle from geoid, topography and plate velocities (Ricard, Y., Wuming, B.), **105**, 561
Viscosity of the upper mantle from laboratory creep and anelasticity measurements in peridotite at high pressure and temperature (Sato, H.), **105**, 587

Marine sediments

In situ measurement of transverse isotropy in shallow-water marine sediments (Berge, P.A., Mallick, S., Fryer, G.J., Barstow, N., Carter, J.A., Sutton, G.H., Ewing, J.I.), **104**, 241

Microearthquakes

Implications of the distribution of seismicity near Lake Bogoria in the Kenya Rift (Young, P.A.V., Maguire, P.K.H., Laffoley, N.d'A., Evans, J.R.), **105**, 665
Spectral characteristics and source parameters of microearthquakes from the Mt Cameroon volcanic region, West Africa (Ambeh, W.B., Fairhead, J.D.), **106**, 229
Regular, deep seismicity beneath Mt Cameroon volcano: lack of evidence for tidal triggering (Ambeh, W.B., Fairhead, J.D.), **106**, 287

Microseismicity and structure of the Germencik area, western Turkey (Jones, M., Westaway, R.), **106**, 293
Multifractal analysis of spatial distribution of microearthquakes in the Kanto region (Hirata, T., Imoto, M.), **107**, 155

Microseismicity

Microseismicity and structure of the Germencik area, western Turkey (Jones, M., Westaway, R.), **106**, 293

Moho

A procedure for the systematic interpretation of body wave seismograms—I. Application to Moho depth and crustal properties (Clarke, T.J., Silver, P.G.), **104**, 41

Moon

Depth of basalt fill and transient crater geometry for the Imbrium mascon basin (Mullis, A.M.), **105**, 777

New Zealand

Tearing of the subducted Australian plate during the Te Anau, New Zealand, earthquake of 1988 June 3 (Reyners, M., Gledhill, K., Waters, D.), **104**, 105

Normal faulting

Microseismicity and structure of the Germencik area, western Turkey (Jones, M., Westaway, R.), **106**, 293

Normal modes

Spherically symmetric attenuation within the Earth from normal mode data (Widmer, R., Masters, G., Gilbert, F.), **104**, 541
The gravito-elastodynamics of a pre-stressed elastic earth (Vermeersen, L.L.A., Vlaar, N.J.), **104**, 555
Normal mode multiplet coupling along a dispersion branch (Um, J., Dahlen, F.A., Park, J.), **106**, 11

Nutation

On the calculation of low-frequency oscillations of the Earth's core (Diakonov, S.), **107**, 291

Oceanic crust

Crustal structure of the Madeira – Tore Rise, eastern North Atlantic—results of a DOBS wide-angle and normal incidence seismic experiment in the Josephine Seamount region (Peirce, C., Barton, P.J.), **106**, 357
Theoretical controlled-source electromagnetic responses of fast-spreading mid-ocean ridge models (Everett, M.E., Edwards, R.N.), **105**, 313

Oceanic currents

Electric currents in the ocean induced by the geomagnetic Sq field and their effects on the estimation of mantle conductivity (Takeda, M.), **104**, 381

Oxidation

A direct comparison of the properties of CRM and VRM in the low-temperature oxidation of magnetite (Gapeev, A.K., Gribov, S.K., Dunlop, D.J., Özdemir, Ö., Shcherbakov, V.P.), **105**, 407

Pacific Ocean

Viscosity of the upper mantle from laboratory creep and anelasticity measurements in peridotite at high pressure and temperature (Sato, H.), **105**, 587

Palaeogeography

A palaeomagnetic study of the Builth Wells–Llandrindod Wells Ordovician Inlier, Wales: palaeogeographic and structural implications (Trench, A., Torsvik, T.H., Smethurst, M.A., Woodcock, N.H., Metcalfe, R.), **105**, 477

Palaeomagnetism

The apparent polar wander path for the North China Block since the Jurassic (Zheng, Z., Kono, M., Tsunakawa, H., Kimura, G., Wei, Q., Zhu, X., Hao, T.), **104**, 29
Palaeomagnetism of red beds of the Late Devonian Worange Point Formation, SE Australia (Thrupp, G.A., Kent, D.V., Schmidt, P.W., Powell, C. McA.), **104**, 179
A revised Palaeozoic apparent polar wander path for Southern Britain (Eastern Avalonia) (Trench, A., Torsvik, T.H.), **104**, 227
Palaeomagnetic results from the Tibetan Sedimentary Series of the Manang area (north central Nepal) (Appel, E., Müller, R., Widder, R.W.), **104**, 255
Palaeomagnetism and opaque mineral oxides of some basalt from west central Sinai, Egypt (Wassif, N.A.), **104**, 319
Deconvolution of long-core palaeomagnetic measurements—spline therapy for the linear problem (Constable, C., Parker, R.), **104**, 453
Palaeomagnetism of Devonian ring complexes from the Bayuda Desert, Sudan—new constraints on the apparent polar wander path for Gondwanaland (Bachtadse, V., Briden, J.C.), **104**, 635
Rapid rotation of southwest Japan—palaeomagnetism and K–Ar ages of Miocene volcanic rocks of southwest Japan (Otofuji, Y., Itaya, T., Matsuda, T.), **105**, 397
A general statistical test for the effect of folding (Fisher, N.I., Hall, P.), **105**, 419
The British Siluro-Devonian Palaeofield, the Great Glen Fault and analytical methods in palaeomagnetism: comments on paper by K. M. Storetvedt *et al* (Torsvik, T.H., Trench, A., Smethurst, M.A.), **105**, 467
On the British Siluro-Devonian palaeomagnetic field problem: reply to comments by T. H. Torsvik *et al* (Storetvedt, K.M., Deutsch, E.R., Murthy, G.S.), **105**, 475
A palaeomagnetic study of the Builth Wells–Llandrindod Wells Ordovician Inlier, Wales: palaeogeographic and structural implications (Trench, A., Torsvik, T.H., Smethurst, M.A., Woodcock, N.H., Metcalfe, R.), **105**, 477
An Upper Carboniferous–Lower Permian (280 Ma) palaeomagnetic pole from the western margin of the Bohemian Massif (Soffel, H.C., Harzer, F.), **105**, 547
Experimental CRM production in a basaltic rock; evidence for stable, intermediate palaeomagnetic directions (Walderhaug, H.J., Torsvik, T.H., Løvlie, R.), **105**, 747
Palaeomagnetism and the Siljan impact structure, central Sweden (Elming, S.Å., Bylund, G.), **105**, 757
A 65 Ma palaeomagnetic pole for the Pacific plate from the skewness of magnetic anomalies 27r – 31 (Acton, G.D., Gordon, R.G.), **106**, 407
Siluro-Devonian palaeomagnetism, terrane emplacement and rotation in the Caledonides of western Ireland (Piper, J.D.A.), **106**, 559
Flow duration of a dike constrained by palaeomagnetic data (Smith, B., Bonneville, A., Hamzaoui, R.), **106**, 621
A palaeomagnetic study of Cainozoic basalts from Northern Nigeria (Garde, S.C., Ayeni, I.O.), **106**, 717
Geological and palaeomagnetic significance of the Kulgera Dyke Swarm, Musgrave Block, NT, Australia (Camacho, A., Simons, B., Schmidt, P.W.), **107**, 37
Implications of a palaeomagnetic study of the Silica nappe, Slovakia (Márton, P., Rozložník, L., Sasvári, T.), **107**, 67
Ordovician magnetostatigraphy: Llanvirn–Caradoc limestones of the Baltic platform (Torsvik, T.H., Trench, A.), **107**, 171

Palaeomagnetic directions (223–1.4 ka) recorded in the volcanites of Lipari, Aeolian Islands (Lanza, R., Zanella, E.), **107**, 191
Tectonic rotations in the Late Palaeozoic continental margin of southern South America determined and dated by palaeomagnetism (Rapalini, A.E., Vilas, J.F.), **107**, 333
The Lower Palaeozoic apparent polar wander path for Baltica: palaeomagnetic data from Silurian limestones of Gotland, Sweden (Trench, A., Torsvik, T.H.), **107**, 373

Permeability

Analytical models of the effective permeability of sand–shale reservoirs (McCarthy, J.F.), **105**, 513

Perturbation methods

Seismic rays in media with slight lateral variation in velocity (Moore, B.J.), **105**, 213
Perturbation from isotropic to anisotropic heterogeneous media in the ray approximation (Nowack, R.L., Psencik, I.), **106**, 1
The traveltime perturbations for seismic body waves in factorized anisotropic inhomogeneous media (Červený, V., Simões-Filho, I.A.), **107**, 219

Planetary impact

Thermal equilibration of the Earth following a giant impact (Spohn, T., Schubert, G.), **107**, 163

Porosity

Poroelasticity: parameters reviewed (Kümpel, H.-J.), **105**, 783

Radiation patterns

Green's tensor and radiation patterns of point sources in general anisotropic inhomogeneous elastic media (Ben-Menahem, A., Gibson Jr, R.L., Sena, A.G.), **107**, 297

Ray method

Generalized ray theory for an Epstein profile (Drijkoningen, G.G.), **104**, 469

Ray tracing

Ray tracing on a heterogeneous sphere by Lie series (Virieux, J., Ekström, G.), **104**, 11
Finite difference computation of traveltimes in very contrasted velocity models: a massively parallel approach and its associated tools (Podvin, P., Lecomte, I.), **105**, 271
A new approach to describe the seismic wavefield using higher order Gaussian beam modes (Ryberg, T.), **105**, 619
Perturbation from isotropic to anisotropic heterogeneous media in the ray approximation (Nowack, R.L., Psencik, I.), **106**, 1

Remanent magnetization

Detrital remanence, inclination errors, and anhysteretic remanence anisotropy, quantitative model and experimemtal results (Jackson, M.J., Banerjee, S.K., Marvin, J.A., Lu, R., Gruber, W.), **104**, 95
A new 3-D inversion algorithm for magnetic total field anomalies (Zeyen, H., Pous, J.), **104**, 583
A direct comparison of the properties of CRM and VRM in the low-temperature oxidation of magnetite (Gapeev, A.K., Gribov, S.K., Dunlop, D.J., Özdemir, Ö., Shcherbakov, V.P.), **105**, 407
Experimental CRM production in a basaltic rock; evidence for stable, intermediate palaeomagnetic directions (Walderhaug, H.J., Torsvik, T.H., Løvlie, R.), **105**, 747
Palaeomagnetism and the Siljan impact structure, central Sweden (Elming, S.Å., Bylund, G.), **105**, 757
Geological and palaeomagnetic significance of the Kulgera Dyke Swarm, Musgrave Block, NT, Australia (Camacho, A., Simons, B., Schmidt, P.W.), **107**, 37

Reservoirs

Analytical models of the effective permeability of sand–shale reservoirs (McCarthy, J.F.), **105**, 513

Ring complexes

Palaeomagnetism of Devonian ring complexes from the Bayuda Desert, Sudan—new constraints on the apparent polar wander path for Gondwanaland (Bachtadse, V., Briden, J.C.), **104**, 635

Rock magnetism

Palaeomagnetism and opaque mineral oxides of some basalt from west central Sinai, Egypt (Wassif, N.A.), **104**, 319
Grain-size separation of haematite in the $<5\mu$m range for rockmagnetic investigation (Dekkers, M.J., Linssen, J.H.), **104**, 423
An Upper Carboniferous–Lower Permian (280 Ma) palaeomagnetic pole from the western margin of the Bohemian Massif (Soffel, H.C., Harzer, F.), **105**, 547
Experimental CRM production in a basaltic rock; evidence for stable, intermediate palaeomagnetic directions (Walderhaug, H.J., Torsvik, T.H., Løvlie, R.), **105**, 747

Rupture propagation

Effects of source radiation patterns on the phase $S_{670}P$ beneath the Tonga subduction zone (Wicks Jr, C.W., Richards,M.A.), **107**, 279

Scattering

Surface wave scattering from 3-D obstacles (Bostock, M.G.), **104**, 351
Are long-period body wave coda caused by lateral heterogeneity? (Neele, F., Snieder, R.), **107**, 131
Generalized Born scattering of elastic waves in 3-D media (Coates, R.T., Chapman, C.H.), **107**, 231

Sea - level variation

Secular trends in mean tidal range around the British Isles and along the adjacent European coastline (Woodworth, P.L., Shaw, S.M., Blackman, D.L.), **104**, 593

Seasat

Simultaneous estimation of the gravity field and sea surface topography from satellite altimeter data by least-squares collocation (Knudsen, P.), **104**, 307

Sedimentary basins

Deep crustal features of the Celtic Sea from complementary processing on the SWAT data (Dyment, J., Bano, M.), **105**, 71
Source location and valley shape effects on the *P–SV* near displacement field using a boundary integral equation–discrete wavenumber representation method (Gaffet, S., Bouchon, M.), **106**, 341

Phase changes and thermal subsidence in intracontinental sedimentary basins (Hamdani, Y., Mareschal, J.-C., Arkani-Hamed, J.), **106**, 657
Paris Basin VSPs: case history establishing combinations of fine-layer (or lithologic) anisotropy and crack anisotropy from modelling shear wavefields near point singularities (Bush, I., Crampin, S.), **107**, 433
The range of effects of azimuthal isotropy and EDA anisotropy in sedimentary basins (Wild, P., Crampin, S.), **107**, 513
Effects of point singularities on shear-wave propagation in sedimentary basins (Crampin, S.), **107**, 531

Sediments

A magnetotelluric survey on Manitoulin Island and Bruce Peninsula along GLIMPCE seismic line J: black shales mask the Grenville Front (Mareschal, M., Kurtz, R.D., Chouteau, M., Chakridi, R.), **105**, 173

Seismic anisotropy

In situ measurement of transverse isotropy in shallow-water marine sediments (Berge, P.A., Mallick, S., Fryer, G.J., Barstow, N., Carter, J.A., Sutton, G.H., Ewing, J.I.), **104**, 241

Seismic data analysis

Reflection/transmission coefficients and azimuthal anisotropy in marine seismic studies (Mallick, S., Neil Frazer, L.), **105**, 241

Seismic deconvolution

The Wiener – Levinson algorithm and ill-conditioned normal equations (O'Dowd, R.J.), **106**, 399

Seismic event rates

A modified Griffith criterion for the evolution of damage with a fractal distribution of crack lengths: application to seismic event rates and *b*-values (Main, I.G.), **107**, 353

Seismic noise

Spectra of ocean-bottom seismic noise in the 0.01 – 10 Hz range (Dozorov, T.A., Soloviev, S.L.), **106**, 113

Seismic phase identification

Traveltimes for global earthquake location and phase identification (Kennett, B.L.N., Engdahl, E.R.), **105**, 429

Seismic ray theory

Seismic rays in media with slight lateral variation in velocity (Moore, B.J.), **105**, 213

Seismic reflection

Seismic reflections from the Earth's crust; comparative studies of tectonic patterns (Meissner, R., Brown, L.), **105**, 1
A new map of crustal 'terranes' in the United States from COCORP deep seismic reflection profiling (Brown, L.D.), **105**, 3
Continental collisions and seismic signature (Meissner, R., Wever, Th., Sadowiak, P.), **105**, 15
A unified view of craton evolution motivated by recent deep seismic reflection and refraction results (Nelson, K.D.), **105**, 25
Energy histograms for the characterization of deep reflection seismic profiles (Bittner, R., Wever, Th.), **105**, 37
Geological significance of seismic reflections in collision belts (Bois, C.), **105**, 55
Deep crustal features of the Celtic Sea from complementary processing on the SWAT data (Dyment, J., Bano, M.), **105**, 71
Results of NFP 20 seismic reflection profiling along the Alpine section of the European Geotraverse (EGT) (Valasek, P., Mueller, St., Frei, W., Holliger, K.), **105**, 85
Spatial dealiasing of 3-D seismic reflection data (Ronen, S., Sorin, V., Bale, R.), **105**, 503
Results of the DEKORP 1 (BELCORP – DEKORP) deep seismic reflection studies in the western part of the Rhenish Massif (DEKORP Research Group.), **106**, 203

Seismic refraction

A unified view of craton evolution motivated by recent deep seismic reflection and refraction results (Nelson, K.D.), **105**, 25
A seismic refraction study of the western Tuz Gölü basin, central Turkey (Gürbüz, C., Evans, J.R.), **106**, 239
Q along the FENNOLORA profile (Havskov, J., Medhus, J.), **106**, 531
Measurements and modelling of possible mantle constituents from a long-line seismic refraction experiment in the West Philippine Basin (Goodman, D., Dale Bibee, L.), **106**, 667

Seismic spectra

Spectral characteristics and source parameters of microearthquakes from the Mt Cameroon volcanic region, West Africa (Ambeh, W.B., Fairhead, J.D.), **106**, 229
Spectral discrimination between Soviet explosions and earthquakes using short-period array data (Taylor, S.R., Marshall, P.D.), **106**, 265

Seismic stress

Stress corrosion constitutive laws as a possible mechanism of intermediate-term and short-term seismic quiescence (Main, I.G., Meredith, P.G.), **107**, 363

Seismic tomography

Delay-time tomography of the upper mantle below Europe, the Mediterranean, and Asia Minor (Spakman, W.), **107**, 309
On the resolving power of tomographic images in the Aegean area (Ligdas, C.N., Main, I.G.), **107**, 197

Seismic velocities

Shear-velocity structure of the crust and upper mantle beneath the Tibetan Plateau and southeastern China (Zhao, L.-S., Helmberger, D.V., Harkrider, D.G.), **105**, 713
Full-wavefield inversion of wide-aperture *SH* and Love wave data (Sun, R., McMechan, G.A.), **106**, 67

Seismic wave propagation

The pseudo-primary field due to a point-source in a finely layered medium (de Hoop, M.V., Chang, H.-W., Burridge, R.), **104**, 489
Wave propagation through fluid-filled inclusions of various shapes: interpretation of extensive-dilatancy anisotropy (Crampin, S.), **104**, 611
Broadband modelling along a regional shield path, Harvard recording of the Saguenay earthquake (Zhao, L.-S., Helmberger, D.V.), **105**, 301

Seismic waveforms

Inversion for laterally heterogeneous earth structure using a laterally heterogeneous starting model: preliminary results (Hara, T., Tsuboi, S., Geller, R.J.), **104**, 523

Seismic waves

The removal of free surface interactions from three-component seismograms (Kennett, B.L.N.), **104**, 153
Global asymptotic solutions of the wave equation (Foster, D.J., Huang, J.-I.), **105**, 163
Finite difference computation of traveltimes in very contrasted velocity models: a massively parallel approach and its associated tools (Podvin, P., Lecomte, I.), **105**, 271
Broadband modelling along a regional shield path, Harvard recording of the Saguenay earthquake (Zhao, L.-S., Helmberger, D.V.), **105**, 301
Traveltimes for global earthquake location and phase identification (Kennett, B.L.N., Engdahl, E.R.), **105**, 429
A new approach to describe the seismic wavefield using higher order Gaussian beam modes (Ryberg, T.), **105**, 619
Broadband observations of *PS* conversions from the upper mantle in Eurasia (Stammler, K., Kind, R., Kosarev, G.L., Plesinger, A., Horálek, J., Qiyuan, L., Vinnik, L.-P.), **105**, 801
Full-wavefield inversion of wide-aperture *SH* and Love wave data (Sun, R., McMechan, G.A.), **106**, 67
On ISC *PP* and *p*P data and their use in delay-time tomography (van der Hilst, R.D., Engdahl, E.R.), **106**, 169
Source location and valley shape effects on the *P–SV* near displacement field using a boundary integral equation – discrete wavenumber representation method (Gaffet, S., Bouchon, M.), **106**, 341
Inversion of teleseismic *S* particle motion for azimuthal anisotropy in the upper mantle: a feasibility study (Farra, V., Vinnik, L.P., Romanowicz, B., Kosarev, G.L., Kind, R.), **106**, 421
Precursory arrivals to *PP* (Kato, M., Hirahara, K.), **106**, 551
Radiation pattern of crustal phases of New England earthquakes (Zhao, X., Ebel, J.E.), **106**, 647
Seismic-wave attenuation operators for arbitrary *Q* (Fang, Y., Müller, G.), **106**, 703
Lateral variation and frequency dependence of coda-*Q* in the southern part of Iberia (Canas, J.A., Pujades, L., Badal, J., Payo, G., de Miguel, F., Vidal, F., Alguacil, G., Ibanez, J., Morales, J.), **107**, 57
A global study of *S*-to-*P* and *P*-to-*S* conversions from the upper mantle transition zone (Bock, G., Kind, R.), **107**, 117
The traveltime perturbations for seismic body waves in factorized anisotropic inhomogeneous media (Červený, V., Simões-Filho, I.A.), **107**, 219
Dispersion of guided waves in thin anisotropic waveguides (Lou, M., Crampin, S.), **107**, 545

Seismicity

A kinetic model of crack fusion (Czechowski, Z.), **104**, 419
A correlation between earthquakes and eruptive phases at Mt Etna: an example and past occurrences (Nercessian, A., Hirn, A., Sapin, M.), **105**, 131
Seismic heterogeneity of Mt Etna: structure and activity (Hirn, A., Nercessian, A., Sapin, M., Ferrucci, F., Wittlinger, G.), **105**, 139
Earthquake hazard in the Kenya Rift: the Subukia earthquake 1928 (Ambraseys, N.N.), **105**, 253
Implications of the distribution of seismicity near Lake Bogoria in the Kenya Rift (Young, P.A.V., Maguire, P.K.H., Laffoley, N.d'A., Evans, J.R.), **105**, 665
Earthquake distribution in the subduction zone off eastern Hokkaido, Japan, deduced from ocean-bottom seismographic and land observations (Iwasaki, T., Hirata, N., Kanazawa, T., Urabe, T., Motoya, Y., Shimamura, H.), **105**, 693
Regular, deep seismicity beneath Mt Cameroon volcano: lack of evidence for tidal triggering (Ambeh, W.B., Fairhead, J.D.), **106**, 287

Seismograms

The removal of free surface interactions from three-component seismograms (Kennett, B.L.N.), **104**, 153
Waveform inversion of surface wave data: test of a new tool for systematic investigation of upper mantle structures (Léveque, J.J., Cara, M., Rouland, D.), **104**, 565
Single-station decomposition of seismograms for subevent time histories (Di Bona, M., Boatwright, J.), **105**, 103

Seismology

Global asymptotic solutions of the wave equation (Foster, D.J., Huang, J.-I.), **105**, 163

Shear-wave splitting

A decade of shear-wave splitting in the Earth's crust: what does it mean? what use can we make of it? and what should we do next? (Crampin, S., Lovell, J.H.), **107**, 387
Prediction of lateral variability in fracture intensity using multicomponent shear-wave surface seismic as a precursor to horizontal drilling in the Austin Chalk (Mueller, M.C.), **107**, 409
Estimating physical parameters of cracked–porous oil reservoirs by inverting shear-wave splitting (Brodov, L.U., Tikhonov, A.A., Chesnokov, E.M., Tertychnyi, V.V., Zatsepin, S.V.), **107**, 429
Paris Basin VSPs: case history establishing combinations of fine-layer (or lithologic) anisotropy and crack anisotropy from modelling shear wavefields near point singularities (Bush, I., Crampin, S.), **107**, 433
Fracture detection using crosshole surveys and reverse vertical seismic profiles at the Conoco Borehole Test Facility, Oklahoma (Liu, E., Crampin, S., Queen, J.H.), **107**, 449
Observations of shear-wave splitting from marine VSPs in the southern North Sea (Campden, D.A., Crampin, S.), **107**, 465
Viability of shear-wave amplitude versus offset studies in anisotropic media (Yardley, G.S., Graham, G., Crampin, S.), **107**, 493
The range of effects of azimuthal isotropy and EDA anisotropy in sedimentary basins (Wild, P., Crampin, S.), **107**, 513
Effects of point singularities on shear-wave propagation in sedimentary basins (Crampin, S.), **107**, 531
Inverting shear-wave polarizations for anisotropy using three-component offset VSPs: synthetic seismograms (MacBeth, C.), **107**, 571
Inversion for subsurface anisotropy using estimates of shear-wave splitting (MacBeth, C.), **107**, 585
Complex component analysis of shear-wave splitting: theory (Li, X.-Y., Crampin, S.), **107**, 597
Complex component analysis of shear-wave splitting: case studies (Li, X.-Y., Crampin, S.), **107**, 605
Analysis of shear waves with respect to splitting near the San Andreas Fault (Mjelde, R.), **107**, 649
Observations of shear-wave polarizations from rockbursts in a South African gold field: an analysis of acceleration and velocity recordings (Graham, G., Crampin, S., Fernandez, L.M.), **107**, 661
Shear-wave anisotropy across the geothermal field of Milos, Aegean volcanic arc (Sachpazi, M., Hirn, A.), **107**, 673
Acoustic anisotropy related to anisotropic stress conditions during formation and unloading (Fjaer, E., Holt, R.M., Rathore, J.S., Åhlén, B.), **107**, 687
Scaled physical modelling of anisotropic wave propagation: multioffset profiles over an orthorhombic medium (Brown, J.R., Lawton, D.C., Cheadle, S.P.), **107**, 693

Slovakia

Implications of a palaeomagnetic study of the Silica nappe, Slovakia (Márton, P., Rozložník, L., Sasvári, T.), **107**, 67

Statistical methods

A general statistical test for the effect of folding (Fisher, N.I., Hall, P.), **105**, 419

Subduction

Tearing of the subducted Australian plate during the Te Anau, New Zealand, earthquake of 1988 June 3 (Reyners, M., Gledhill, K., Waters, D.), **104**, 105

Earthquake distribution in the subduction zone off eastern Hokkaido, Japan, deduced from ocean-bottom seismographic and land observations (Iwasaki, T., Hirata, N., Kanazawa, T., Urabe, T., Motoya, Y., Shimamura, H.), **105**, 693
3-D configuration of subducted lithosphere in the western Pacific (Chiu, J.-M., Isacks, B.L., Cardwell, R.K.), **106**, 99
On the resolving power of tomographic images in the Aegean area (Ligdas, C.N., Main, I.G.), **107**, 197
Tectonic rotations in the Late Palaeozoic continental margin of southern South America determined and dated by palaeomagnetism (Rapalini, A.E., Vilas, J.F.), **107**, 333

Surface waves

Ray tracing on a heterogeneous sphere by Lie series (Virieux, J., Ekström, G.), **104**, 11
Surface wave scattering from 3-D obstacles (Bostock, M.G.), **104**, 351
Waveform inversion of surface wave data: test of a new tool for systematic investigation of upper mantle structures (Léveque, J.J., Cara, M., Rouland, D.), **104**, 565
Normal mode multiplet coupling along a dispersion branch (Um, J., Dahlen, F.A., Park, J.), **106**, 11

Sweden

The Lower Palaeozoic apparent polar wander path for Baltica: palaeomagnetic data from Silurian limestones of Gotland, Sweden (Trench, A., Torsvik, T.H.), **107**, 373

Synthetic earthquake catalogues

Single-link cluster analysis, synthetic earthquake catalogues, and aftershock identification (Davis, S.D., Frohlich, C.), **104**, 289

Synthetic seismograms

A procedure for the systematic interpretation of body wave seismograms—I. Application to Moho depth and crustal properties (Clarke, T.J., Silver, P.G.), **104**, 41
Generalized ray theory for an Epstein profile (Drijkoningen, G.G.), **104**, 469
Multifold phase space path integral synthetic seismograms (Sen, M.K., Frazer, L.N.), **104**, 479
2-D reflectivity method and synthetic seismograms for irregularly layered structures—II. Invariant embedding approach (Koketsu, K., Kennett, B.L.N., Takenaka, H.), **105**, 119
A new approach to describe the seismic wavefield using higher order Gaussian beam modes (Ryberg, T.), **105**, 619
Normal mode multiplet coupling along a dispersion branch (Um, J., Dahlen, F.A., Park, J.), **106**, 11
Multiple moment expansion of fully coupled aspherical earth seismograms (Pollitz, F.F.), **106**, 275
WKBJ modelling for smoothly varying 3-D media (Singh, S.C., Tarantola, A.), **106**, 391
Seismic representation theorem coupling: synthetic $P-SV$ mode sum seismograms for non-homogeneous paths (Regan, J.), **106**, 587
A global study of S-to-P and P-to-S conversions from the upper mantle transition zone (Bock, G., Kind, R.), **107**, 117

Tectonics

Geological significance of seismic reflections in collision belts (Bois, C.), **105**, 55
Rapid rotation of southwest Japan—palaeomagnetism and K–Ar ages of Miocene volcanic rocks of southwest Japan (Otofuji, Y., Itaya, T., Matsuda, T.), **105**, 397
Active tectonics of the north and central Aegean Sea (Taymaz, T., Jackson, J., McKenzie, D.), **106**, 433
Source parameters of large earthquakes in the East Anatolian Fault Zone (Turkey) (Taymaz, T., Eyidoğan, H., Jackson, J.), **106**, 537
Siluro-Devonian palaeomagnetism, terrane emplacement and rotation in the Caledonides of western Ireland (Piper, J.D.A.), **106**, 559
Tectonic rotations in the Late Palaeozoic continental margin of southern South America determined and dated by palaeomagnetism (Rapalini, A.E., Vilas, J.F.), **107**, 333

Thermal conductivity

Thermal conductivity and well logs: a case study in the Paris basin (Demongodin, L., Pinoteau, B., Vasseur, G., Gable, R.), **105**, 677
Flow duration of a dike constrained by palaeomagnetic data (Smith, B., Bonneville, A., Hamzaoui, R.), **106**, 621
Application of the boundary element method to a terrestrial heat flow problem (Chen, Y., Beck, A.E.), **107**, 25
Thermal characteristics of anisotropic media with inclusions (Artemieva, I.M., Chesnokov, E.M.), **107**, 557

Thermal subsidence

Phase changes and thermal subsidence in intracontinental sedimentary basins (Hamdani, Y., Mareschal, J.-C., Arkani-Hamed, J.), **106**, 657

Tibet

Palaeomagnetic results from the Tibetan Sedimentary Series of the Manang area (north central Nepal) (Appel, E., Müller, R., Widder, R.W.), **104**, 255

Tides

A procedure for tidal analysis with a Bayesian information criterion (Tamura, Y., Sato, T., Ooe, M., Ishiguro, M.), **104**, 507
Secular trends in mean tidal range around the British Isles and along the adjacent European coastline (Woodworth, P.L., Shaw, S.M., Blackman, D.L.), **104**, 593
Constraining core undertones using stacked IDA gravity records (Cummins, P., Wahr, J.M., Agnew, D.C., Tamura, Y.), **106**, 189
Regular, deep seismicity beneath Mt Cameroon volcano: lack of evidence for tidal triggering (Ambeh, W.B., Fairhead, J.D.), **106**, 287
A parametrized solid earth tide model and ocean tide loading effects for global geodetic baseline measurements (Scherneck, H.-G.), **106**, 677
Tidal gravity and ocean tide loading in Europe (Baker, T.F., Edge, R.J., Jeffries, G.), **107**, 1

Tomography

The relative amplitudes of mantle heterogeneity in P velocity, S velocity and density from free-oscillation data (Li, X.-D., Giardini, D., Woodhouse, J.H.), **105**, 649
A 2-D synthetic study of global traveltime tomography (Gudmundsson, O., Clayton, R.W.), **106**, 53
On ISC PP and pP data and their use in delay-time tomography (van der Hilst, R.D., Engdahl, E.R.), **106**, 169
Archaeological investigation by electrical resistivity tomography: a preliminary study (Noel, M., Xu, B.), **107**, 95

Topography

A seismic refraction study of the western Tuz Gölü basin, central Turkey (Gürbüz, C., Evans, J.R.), **106**, 239
Topography and geoid anomalies due to density heterogeneities at the base of the thermal lithosphere: application to oceanic swells and small-wavelength geoid lineations (Fleitout, L., Moriceau, C.), **107**, 265

Turkey

A seismic refraction study of the western Tuz Gölü basin, central Turkey (Gürbüz, C., Evans, J.R.), **106**, 239
Microseismicity and structure of the Germencik area, western Turkey (Jones, M., Westaway, R.), **106**, 293

Upper mantle

Inversion for laterally heterogeneous earth structure using a laterally heterogeneous starting model: preliminary results (Hara, T., Tsuboi, S., Geller, R.J.), **104**, 523
Waveform inversion of surface wave data: test of a new tool for systematic investigation of upper mantle structures (Léveque, J.J., Cara, M., Rouland, D.), **104**, 565
Viscosity of the upper mantle from laboratory creep and anelasticity measurements in peridotite at high pressure and temperature (Sato, H.), **105**, 587
Shear-velocity structure of the crust and upper mantle beneath the Tibetan Plateau and southeastern China (Zhao, L.-S., Helmberger, D.V., Harkrider, D.G.), **105**, 713
Broadband observations of *PS* conversions from the upper mantle in Eurasia (Stammler, K., Kind, R., Kosarev, G.L., Plesinger, A., Horálek, J., Qiyuan, L., Vinnik, L.-P.), **105**, 801
Are long-period body wave coda caused by lateral heterogeneity? (Neele, F., Snieder, R.), **107**, 131

USA

A new map of crustal 'terranes' in the United States from COCORP deep seismic reflection profiling (Brown, L.D.), **105**, 3

Viscoelasticity

Viscoelastodynamics of a stratified, compressible planet: incremental field equations and short- and long-time asymptotes (Wolf, D.), **104**, 401

Viscosity

3-D convection with variable viscosity (Christensen, U., Harder, H.), **104**, 213

Volcanic activity

Palaeomagnetic directions (223–1.4 ka) recorded in the volcanites of Lipari, Aeolian Islands (Lanza, R., Zanella, E.), **107**, 191

Volcanic eruptions

A correlation between earthquakes and eruptive phases at Mt Etna: an example and past occurrences (Nercessian, A., Hirn, A., Sapin, M.), **105**, 131
Deformation-induced gravity changes in volcanic regions (Wong, T.-f., Walsh, J.B.), **106**, 513

Volcanic structure

Seismic heterogeneity of Mt Etna: structure and activity (Hirn, A., Nercessian, A., Sapin, M., Ferrucci, F., Wittlinger, G.), **105**, 139

Wave equation

Global asymptotic solutions of the wave equation (Foster, D.J., Huang, J.-I.), **105**, 163
Wave equation inversion of skeletalized geophysical data (Luo, Y., Schuster, G.T.), **105**, 289

Wave propagation

Reflection and transmission of elastic waves at a loosely bonded interface between an elastic solid and liquid-saturated porous solid (Vashisth, A.K., Sharma, M.D., Gogna, M.L.), **105**, 601
A new approach to describe the seismic wavefield using higher order Gaussian beam modes (Ryberg, T.), **105**, 619

Wind erosion

Suspension transport of wind-eroded sand particles (Hassan, M.H.A., Eltayeb, I.A.), **104**, 147

Geophysical journal international author index by volume 104–107

Acton, G.D., Gordon, R.G. A 65 Ma palaeomagnetic pole for the Pacific plate from the skewness of magnetic anomalies 27r –31, **106**, 407
Agnew, D.C. *see* Cummins, P.
Åhlén, B. *see* Fjaer, E.
Aki, K. *see* Chen, X.
Al Abbasi, J.N. *see* Fahmi, K.J.
Alguacil, G. *see* Canas, J.A.
Ambeh, W.B., Fairhead, J.D. Regular, deep seismicity beneath Mt Cameroon volcano: lack of evidence for tidal triggering, **106**, 287
Ambeh, W.B., Fairhead, J.D. Spectral characteristics and source parameters of microearthquakes from the Mt Cameroon volcanic region, West Africa, **106**, 229
Ambraseys, N.N. Earthquake hazard in the Kenya Rift: the Subukia earthquake 1928, **105**, 253
Appel, E., Müller, R., Widder, R.W. Palaeomagnetic results from the Tibetan Sedimentary Series of the Manang area (north central Nepal), **104**, 255
Appel, E., Rösler, W., Corvinus, G. Magnetostratigraphy of the Miocene-Pleistocene Surai Khola Siwaliks in West Nepal, **105**, 191
Arkani-Hamed, J. *see* Hamdani, Y.
Artemieva, I.M., Chesnokov, E.M. Thermal characteristics of anisotropic media with inclusions, **107**, 557
Ayeni, I.O. *see* Garde, S.C.

Bachtadse, V., Briden, J.C. Palaeomagnetism of Devonian ring complexes from the Bayuda Desert, Sudan—new constraints on the apparent polar wander path for Gondwanaland, **104**, 635
Badal, J. *see* Canas, J.A.
Baker, T.F., Edge, R.J., Jeffries, G. Tidal gravity and ocean tide loading in Europe, **107**, 1
Bale, R. *see* Ronen, S.
Banerjee, S.K. *see* Jackson, M.J.
Bano, M. *see* Dyment, J.
Bard, P - Y. *see* Gariel, J C.
Barstow, N. *see* Berge, P.A.
Barton, P.J. *see* Peirce, C.
Bean, C.J. *see* Jacob, A.W.B.
Beck, A.E. *see* Chen, Y.
Belardinelli, M.E., Bonafede, M. A crack model of afterslip events on shallow faults, **106**, 521
Ben-Menahem, A., Gibson Jr, R.L., Sena, A.G. Green's tensor and radiation patterns of point sources in general anisotropic inhomogeneous elastic media, **107**, 297
Berg, E., Hood, J.A., Fryer, G.J. Reduction of the general fracture compliance matrix **Z** to only five independent elements, **107**, 703
Berge, P.A., Mallick, S., Fryer, G.J., Barstow, N., Carter, J.A., Sutton, G.H., Ewing, J.I. *In situ* measurement of transverse isotropy in shallow-water marine sediments, **104**, 241
Bergeron, A., Bonnin, J. The deep structure of Gorringe Bank (NE Atlantic) and its surrounding area, **105**, 491
Bernard, P. *see* Zollo, A.
Bittner, R., Wever, Th. Energy histograms for the characterization of deep reflection seismic profiles, **105**, 37
Blackman. D.L. *see* Woodworth, P.L.
Bloxham, J. *see* Jackson, A.
Boatwright, J. *see* Di Bona, M.
Bock, G., Kind, R. A global study of *S*-to-*P* and *P*-to-*S* conversions from the upper mantle transition zone, **107**, 117
Bois, C. Geological significance of seismic reflections in collision belts, **105**, 55
Bonafede, M. *see* Belardinelli, M.E.
Bonneville, A. *see* Chery, J.
Bonneville, A. *see* Smith, B.
Bonnin, J. *see* Bergeron, A.
Bostock, M.G. Surface wave scattering from 3-D obstacles, **104**, 351
Bouchon, M. *see* Gaffet, S.
Bowman, J.R. Geodetic evidence for conjugate faulting during the 1988 Tennant Creek, Australia earthquake sequence, **107**, 47
Briden, J.C. *see* Bachtadse, V.
Brodov, L. *see* Cliet, Ch.
Brodov, L.U., Tikhonov, A.A., Chesnokov, E.M., Tertychnyi, V.V., Zatsepin, S.V. Estimating physical parameters of cracked–porous oil reservoirs by inverting shear-wave splitting, **107**, 429
Brosche, P., Sündermann, J. Earth's rotation from eons to days, **105**, 807
Brown, J.R., Lawton, D.C., Cheadle, S.P. Scaled physical modelling of anisotropic wave propagation: multioffset profiles over an orthorhombic medium, **107**, 693
Brown, L. *see* Meissner, R.
Brown, L.D. A new map of crustal 'terranes' in the United States from COCORP deep seismic reflection profiling, **105**, 3
Buntebarth, G. *see* Safanda, J.
Burridge, R. *see* de Hoop, M.V.
Bush, I., Crampin, S. Paris Basin VSPs: case history establishing combinations of fine-layer (or lithologic) anisotropy and crack anisotropy from modelling shear wavefields near point singularities, **107**, 433
Bylund, G. *see* Elming, S.Å.

Camacho, A., Simons, B., Schmidt, P.W. Geological and palaeomagnetic significance of the Kulgera Dyke Swarm, Musgrave Block, NT, Australia, **107**, 37
Campden, D.A., Crampin, S. Observations of shear-wave splitting from marine VSPs in the southern North Sea, **107**, 465
Canas, J.A., Pujades, L., Badal, J., Payo, G., de Miguel, F., Vidal, F., Alguacil, G., Ibañez, J., Morales, J. Lateral variation and frequency dependence of coda-Q in the southern part of Iberia, **107**, 57
Cara, M. *see* Léveque, J.J.
Cardwell, R.K. *see* Chiu, J.-M.
Carter, J.A. *see* Berge, P.A.
Červený, V., Simões-Filho, I.A. The traveltime perturbations for seismic body waves in factorized anisotropic inhomogeneous media, **107**, 219
Chakridi, R. *see* Mareschal, M.
Chang, H.-W. *see* de Hoop, M.V.
Chang, W.-F., McMechan, G.A. Wavefield extrapolation of body waves for 3-D imaging of earthquake sources, **106**, 85
Chao, B.F. *see* Liu, H.S.
Chapman, C.H. *see* Coates, R.T.
Chase, C.G. *see* Liu, M.
Cheadle, S.P. *see* Brown, J.R.
Chen, X., Aki, K. General coherence functions for amplitude and phase fluctuations in a randomly heterogeneous medium, **105**, 155
Chen, Y., Beck, A.E. Application of the boundary element method to a terrestrial heat flow problem, **107**, 25
Chery, J., Bonneville, A., Vilotte, J.P., Yuen, D. Numerical modelling of caldera dynamical behaviour, **105**, 365
Chesnokov, E.M., Zatsepin, S.V. Effects of applied stress on effective elastic anisotropy in cracked solids, **107**, 563
Chesnokov, E.M. *see* Artemieva, I.M.
Chesnokov, E.M. *see* Brodov, L.U.
Chiozzi, P. *see* Pasquale, V.
Chiu, J.-M., Isacks, B.L., Cardwell, R.K. 3-D configuration of subducted lithosphere in the western Pacific, **106**, 99
Chouteau, M. *see* Mareschal, M.
Christensen, U., Harder, H. 3-D convection with variable viscosity, **104**, 213
Clarke, T.J., Silver, P.G. A procedure for the systematic interpretation of body wave seismograms—I. Application to Moho depth and crustal properties, **104**, 41

Clayton, R.W. *see* Gudmundsson, O.
Cliet, Ch., Brodov, L., Tikhonov, A., Marin, D., Michon, D. Anisotropy survey for reservoir definition, **107**, 417
Coates, R.T., Chapman, C.H. Generalized Born scattering of elastic waves in 3-D media, **107**, 231
Constable, C., Parker, R. Deconvolution of long-core palaeomagnetic measurements—spline therapy for the linear problem, **104**, 453
Constable, S. Comment on 'Magnetic appraisal using simulated annealing' by S.E. Dosso and D.W. Oldenburg, **106**, 387
Corvinus, G. *see* Appel, E.
Cosgrove, J.W. *see* Price, N.J.
Crampin, S., Lovell, J.H. A decade of shear-wave splitting in the Earth's crust: what does it mean? what use can we make of it? and what should we do next?, **107**, 387
Crampin, S. An alternative scenario for earthquake prediction experiments, **107**, 185
Crampin, S. Effects of point singularities on shear-wave propagation in sedimentary basins, **107**, 531
Crampin, S. Wave propagation through fluid-filled inclusions of various shapes: interpretation of extensive-dilatancy anisotropy, **104**, 611
Crampin, S. *see* Bush, I.
Crampin, S. *see* Campden, D.A.
Crampin, S. *see* Graham, G.
Crampin, S. *see* Li, X.-Y.
Crampin, S. *see* Liu, E.
Crampin, S. *see* Lou, M.
Crampin, S. *see* Wild, P.
Crampin, S. *see* Yardley, G.S.
Cummins, P., Wahr, J.M., Agnew, D.C., Tamura, Y. Constraining core undertones using stacked IDA gravity records, **106**, 189
Czechowski, Z. A kinetic model of crack fusion, **104**, 419

Dahlen, F.A. *see* Um, J.
Dale Bibee, L. *see* Goodman, D.
Davis, P.M., Knopoff, L. The dipping antiplane crack, **106**, 581
Davis, S.D., Frohlich, C. Single-link cluster analysis, synthetic earthquake catalogues, and aftershock identification, **104**, 289
de Hoop, M.V., Chang, H.-W., Burridge, R. The pseudo-primary field due to a point-source in a finely layered medium,**104**.489
de Miguel, F. *see* Canas, J.A.
De Natale, G., Pingue, F. A variable slip fault model for the 1908 Messina Straits (Italy) earthquake, by inversion of levelling data, **104**, 73
de Parscau, J. *P*- and *SV*- wave transversely isotropic phase velocities analysis from VSP data, **107**, 629
De Santis, A. Translated origin spherical cap harmonic analysis, **106**, 253
Dekkers, M.J., Linssen, J.H. Grain-size separation of haematite in the $<5\mu m$ range for rockmagnetic investigation, **104**, 423
DEKORP Research Group. Results of the DEKORP 1 (BELCORP – DEKORP) deep seismic reflection studies in the western part of the Rhenish Massif , **106**, 203
Demongodin, L., Pinoteau, B., Vasseur, G., Gable, R. Thermal conductivity and well logs: a case study in the Paris basin, **105**, 677
Deutsch, E.R. *see* Storetvedt, K.M.
Di Bona, M., Boatwright, J. Single-station decomposition of seismograms for subevent time histories, **105**, 103
Diakonov, S. On the calculation of low-frequency oscillations of the Earth's core, **107**, 291
Dosso, S.E., Oldenburg, D.W. Magnetotelluric appraisal using simulated annealing, **106**, 379
Dosso, S.E., Oldenburg, D.W. The similitude equation in magnetotelluric inversion, **106**, 507
Dosso, S.E., Oldenburg, S.W. Reply to 'Comment on 'Magnetotelluric appraisal using simulated annealing'' by S. Constable, **106**, 389
Dozorov, T.A., Soloviev, S.L. Spectra of ocean-bottom seismic noise in the 0.01 – 10 Hz range, **106**, 113
Drijkoningen, G.G. Generalized ray theory for an Epstein profile, **104**, 469
Dunlop, D.J. *see* Gapeev, A.K.
Dyment, J., Bano, M. Deep crustal features of the Celtic Sea from complementary processing on the SWAT data, **105**, 71

Ebel, J.E. *see* Zhao, X.
Edge, R.J. *see* Baker, T.F.
Edwards, R.N. *see* Everett, M.E.
Egbert, G.D. On the synthesis of a large geomagnetic array from small overlapping arrays, **106**, 37
Ekström, G. *see* Virieux, J.
Ellis, R.G. *see* Oldenburg, D.W.
Elming, S.Å., Bylund, G. Palaeomagnetism and the Siljan impact structure, central Sweden, **105**, 757
Eltayeb, I.A. *see* Hassan, M.H.A.
Emmermann, R., Wohlenberg, J. The German continental deep drilling program (KTB), **105**, 806
Engdahl, E.R. *see* Kennett, B.L.N.
Engdahl, E.R. *see* van der Hilst, R.D.
Ernst, T. *see* Nowozynski, K.
Evans, J.R. *see* Gürbüz, C.
Evans, J.R. *see* Young, P.A.V.
Everett, M.E., Edwards, R.N. Theoretical controlled-source electromagnetic responses of fast-spreading mid-ocean ridge models, **105**, 313
Ewing, J.I. *see* Berge, P.A.
Eyidoğan, H. *see* Taymaz, T.

Fahmi, K.J., Al Abbasi, J.N. Application of a mixture distribution of extreme values to earthquake magnitudes in Iraq and conterminous regions, **107**, 209
Fairhead, J.D. *see* Ambeh, W.B.
Faller, J.E. *see* Hinderer, J.
Fang, Y., Müller, G. Seismic-wave attenuation operators for arbitrary *Q*, **106**, 703
Farra, V., Vinnik, L.P., Romanowicz, B., Kosarev, G.L., Kind, R. Inversion of teleseismic *S* particle motion for azimuthal anisotropy in the upper mantle: a feasibility study, **106**, 421
Fearn, D.R., Richardson, L. Convection in a non-uniformly stratified fluid permeated by a non-uniform magnetic field, **104**, 203
Feldman, L. *see* Hofstetter, A.
Fernandez, L.M. *see* Graham, G.
Ferrucci, F. *see* Hirn, A.
Fischer, G., Weibel, P. A new look at an old problem: magnetotelluric modelling of 1-D structures, **106**, 161
Fisher, N.I., Hall, P. A general statistical test for the effect of folding, **105**, 419
Fjaer, E., Holt, R.M., Rathore, J.S., Åhlén, B. Acoustic anisotropy related to anisotropic stress conditions during formation and unloading, **107**, 687
Fleitout, L., Moriceau, C. Topography and geoid anomalies due to density heterogeneities at the base of the thermal lithosphere: application to oceanic swells and small-wavelength geoid lineations, **107**, 265
Florsch, N. *see* Hinderer, J.
Foster, D.J., Huang, J.-I. Global asymptotic solutions of the wave equation, **105**, 163
Frazer, L.N. *see* Sen, M.K.
Frei, W. *see* Valasek, P.
Frohlich, C. *see* Davis, S.D.
Fryer, G.J. *see* Berg, E.
Fryer, G.J. *see* Berge, P.A.

Gable, R. *see* Demongodin, L.
Gaffet, S., Bouchon, M. Source location and valley shape effects on the *P–SV* near displacement field using a boundary integral equation – discrete wavenumber representation method, **106**, 341
Gapeev, A.K., Gribov, S.K., Dunlop, D.J., Özdemir, Ö., Shcherbakov, V.P. A direct comparison of the properties of CRM and VRM in the low-temperature oxidation of magnetite, **105**, 407
Garde, S.C., Ayeni, I.O. A palaeomagnetic study of Cainozoic basalts from Northern Nigeria, **106**, 717
Gariel, J - C., Bard, P - Y., Pitilakis, K. A theoretical investigation of source, path and site effects during the 1986 Kalamata earthquake (Greece), **104**, 165
Geller, R.J. Comment on 'The gravito-elastodynamics of a pre-stressed elastic earth' by L.L.A. Vermeersen and N.J. Vlaar, **106**, 499
Geller, R.J. *see* Hara, T.

Giardini, D. *see* Li, X.-D.
Gibson Jr, R.L. *see* Ben-Menahem, A.
Gilbert, F. *see* Widmer, R.
Gleason, D.M. Obtaining Earth surface gravity disturbances from a GPS-based 'high–low' satellite-to-satellite tracking experiment, **107**, 13
Gledhill, K. *see* Reyners, M.
Gogna, M.J. *see* Vashisth, A.K.
Goodman, D., Dale Bibee, L. Measurements and modelling of possible mantle constituents from a long-line seismic refraction experiment in the West Philippine Basin, **106**, 667
Gordon, R.G. *see* Acton, G.D.
Graham, G., Crampin, S., Fernandez, L.M. Observations of shear-wave polarizations from rockbursts in a South African gold field: an analysis of acceleration and velocity recordings, **107**, 661
Graham, G. *see* Yardley, G.S.
Gribov, S.K. *see* Gapeev, A.K.
Gros, Y. *see* Straub, A.
Gruber, W. *see* Jackson, M.J.
Gudmundsson, O., Clayton, R.W. A 2-D synthetic study of global traveltime tomography, **106**, 53
Gürbüz, C., Evans, J.R. A seismic refraction study of the western Tuz Gölü basin, central Turkey, **106**, 239

Hales, A.L. Upper mantle models and the thickness of the continental lithosphere, **105**, 355
Hall, P. *see* Fisher, N.I.
Hamdani, Y., Mareschal, J.-C., Arkani-Hamed, J. Phase changes and thermal subsidence in intracontinental sedimentary basins, **106**, 657
Hamzaoui, R. *see* Smith, B.
Hao, T. *see* Zheng, Z.
Hara, T., Tsuboi, S., Geller, R.J. Inversion for laterally heterogeneous earth structure using a laterally heterogeneous starting model: preliminary results, **104**, 523
Harder, H. *see* Christensen, U.
Harkrider, D.G. *see* Zhao, L.S.
Harzer, F. *see* Soffel, H.C.
Hassan, M.H.A., Eltayeb, I.A. Suspension transport of wind-eroded sand particles, **104**, 147
Havskov, J., Medhus, J. *Q* along the FENNOLORA profile, **106**, 531
Helmberger, D.V. *see* Zhao, L.-S.
Helmberger, D.V. *see* Zhao, L.S.
Heuer, N., Küpper, T., Windelberg, D. Mathematical model of a Hot Dry Rock system, **105**, 659
Hinderer, J., Florsch, N., Mäkinen, J., Legros, H., Faller, J.E. On the calibration of a superconducting gravimeter using absolute gravity measurements, **106**, 491
Hipkin, R.G. *see* Rummel, R.
Hirahara, K. *see* Kato, M.
Hirata, N. *see* Iwasaki, T.
Hirata, T., Imoto, M. Multifractal analysis of spatial distribution of microearthquakes in the Kanto region, **107**, 155
Hirn, A., Nercessian, A., Sapin, M., Ferrucci, F., Wittlinger, G. Seismic heterogeneity of Mt Etna: structure and activity, **105**, 139
Hirn, A. *see* Nercessian, A.
Hirn, A. *see* Sachpazi, M.
Hofstetter, A., Feldman, L., Rotstein, Y. Crustal structure of Israel: constraints from teleseismic and gravity data, **104**, 371
Holliger, K. *see* Valasek, P.
Holt, R.M. *see* Fjaer, E.
Honek, J. *see* Safanda, J.
Hood, J.A. *see* Berg, E.
Horálek, J. *see* Stammler, K.
Huang, J.-I. *see* Foster, D.J.
Hudson, J.A. Crack distributions which account for a given seismic anisotropy, **104**, 517
Hudson, J.A. Overall properties of heterogeneous material, **107**, 505

Ibañez, J. *see* Canas, J.A.
Imoto, M. *see* Hirata, T.
Imoto, M. *see* Ogata, Y.
Isacks, B.L. *see* Chiu, J.-M.
Ishiguro, M. *see* Tamura, Y.
Itaya, T. *see* Otofuji, Y.
Ito, H. *see* Kuwahara, Y.
Iwasaki, T., Hirata, N., Kanazawa, T., Urabe, T., Motoya, Y., Shimamura, H. Earthquake distribution in the subduction zone off eastern Hokkaido, Japan, deduced from ocean-bottom seismographic and land observations, **105**, 693

Jackson, A., Bloxham, J. Mapping the fluid flow and shear near the core surface using the radial and horizontal components of the magnetic field, **105**, 199
Jackson, D.D. *see* Kagan, Y.Y.
Jackson, H.R. *see* Verhoef, J.
Jackson, J. *see* Taymaz, T.
Jackson, M.J., Banerjee, S.K., Marvin, J.A., Lu, R., Gruber, W. Detrital remanence, inclination errors, and anhysteretic remanence anisotropy, quantitative model and experimemtal results, **104**, 95
Jackson, M.J., Pollack, H.N., Sutton, S.T. On the distribution of anomalous mass within the Earth: forward models of the gravitational potential spectrum using ensembles of discrete mass elements, **107**, 83
Jackson, M.J. *see* Sutton, S.T.
Jacob, A.W.B., Bean, C.J., Nolte, B., Prodehl, C. *P*-wave sections in a realistic anisotropic lithosphere, **107**, 709
Janhunen, P., Viljanen, A. Application of conformal mapping to 2-D conductivity structures with non-uniform primary sources, **105**, 185
Jankowski, J. *see* Nowozynski, K.
Jeffries, G. *see* Baker, T.F.
Johnson R.W. Intraplate volcanism in eastern Australia and New Zealand, **105**, 805
Jones, M., Westaway, R. Microseismicity and structure of the Germencik area, western Turkey, **106**, 293

Kagan, Y.Y. 3-D rotation of double-couple earthquake sources, **106**, 709
Kagan, Y.Y., Jackson, D.D. Long-term earthquake clustering, **104**, 117
Kagan, Y.Y. Likelihood analysis of earthquake catalogues, **106**, 135
Kagan, Y.Y. Seismic moment distribution, **106**, 123
Kanazawa, T. *see* Iwasaki, T.
Kato, M., Hirahara, K. Precursory arrivals to *PP*, **106**, 551
Katsura, K. *see* Ogata, Y.
Kennett, B.L.N., Engdahl, E.R. Traveltimes for global earthquake location and phase identification, **105**, 429
Kennett, B.L.N. The removal of free surface interactions from three-component seismograms, **104**, 153
Kennett, B.L.N. *see* Koketsu, K.
Kent, D.V. *see* Thrupp, G.A.
Kienle, J. *see* Wood, C.A.
Kiguchi, T. *see* Kuwahara, Y.
Kimura, G. *see* Zheng, Z.
Kind, R. *see* Bock, G.
Kind, R. *see* Farra, V.
Kind, R. *see* Stammler, K.
Kiratzi, A.A., Langston, C.A. Moment tensor inversion of the 1983 January 17 Kefallinia event of Ionian islands (Greece), **105**, 529
Knopoff, L. *see* Davis, P.M.
Knudsen, P. Simultaneous estimation of the gravity field and sea surface topography from satellite altimeter data by least-squares collocation, **104**, 307
Koch, K. Moment tensor inversion of local earthquake data—I. Investigation of the method and its numerical stability with model calculations, **106**, 305
Koch, K. Moment tensor inversion of local earthquake data—II. Application to aftershocks of the May 1980 Mammoth Lakes earthquakes, **106**, 321
Koketsu, K., Kennett, B.L.N., Takenaka, H. 2-D reflectivity method and synthetic seismograms for irregularly layered structures—II. Invariant embedding approach, **105**, 119
Kono, M. *see* Zheng, Z.
Kosarev, G.L. *see* Farra, V.
Kosarev, G.L. *see* Stammler, K.
Krückel, U. *see* Straub, A.
Kümpel, H.-J. Poroelasticity: parameters reviewed, **105**, 783
Küpper, T. *see* Heuer, N.

Kurtz, R.D. *see* Mareschal, M.
Kuwahara, Y., Ito, H., Kiguchi, T. Comparision between natural fractures and fracture parameters derived from VSP, **107**, 475
Kwok , Y.-K. Singularities in gravity computation for vertical cylinders and prisms, **104**, 1

Laffoley, d'A. *see* Young, P.A.V.
Lamb, S.H. Comment on 'Deformation of the NE Basin and Range Province: the response of the lithosphere to the Yellowstone plume?' by R Westaway, **104**, 661
Langston, C.A. *see* Kiratzi, A.A.
Lanza, R., Zanella, E. Palaeomagnetic directions (223–1.4 ka) recorded in the volcanites of Lipari, Aeolian Islands, **107**, 191
Lawton, D.C. *see* Brown, J.R.
Leary, P. Deep borehole log evidence for fractal distribution of fractures in crystalline rock, **107**, 615
Lecomte, I. *see* Podvin, P.
Legros, H. *see* Hinderer, J.
Léveque, J.J., Cara, M., Rouland, D. Waveform inversion of surface wave data: test of a new tool for systematic investigation of upper mantle structures, **104**, 565
Løvlie, R. *see* Walderhaug, H.J.
Li, X.-D., Giardini, D., Woodhouse, J.H. The relative amplitudes of mantle heterogeneity in *P* velocity, *S* velocity and density from free-oscillation data, **105**, 649
Li, X.-Y., Crampin, S. Complex component analysis of shear-wave splitting: case studies, **107**, 605
Li, X.-Y., Crampin, S. Complex component analysis of shear-wave splitting: theory, **107**, 597
Ligdas, C.N., Main, I.G. On the resolving power of tomographic images in the Aegean area, **107**, 197
Linssen, J.H. *see* Dekkers, M.J.
Liu, E., Crampin, S., Queen, J.H. Fracture detection using crosshole surveys and reverse vertical seismic profiles at the Conoco Borehole Test Facility, Oklahoma, **107**, 449
Liu, H.S., Chao, B.F. The Earth's equatorial principal axes and moments of inertia, **106**, 699
Liu, M., Chase, C.G. Boundary-layer model of mantle plumes with thermal and chemical diffusion and buoyancy, **104**, 433
Lorrain, P. Mapping subsurface fractures by radio-frequency holography: a simulation, **106**, 333
Lou, M., Crampin, S. Dispersion of guided waves in thin anisotropic waveguides, **107**, 545
Lovell, J.H. *see* Crampin, S.
Lu, R. *see* Jackson, M.J.
Luo, Y., Schuster, G.T. Wave equation inversion of skeletalized geophysical data, **105**, 289

MacBeth, C. Inversion for subsurface anisotropy using estimates of shear-wave splitting, **107**, 585
MacBeth, C. Inverting shear-wave polarizations for anisotropy using three-component offset VSPs: synthetic seismograms, **107**, 571
McCarthy, J.F. Analytical models of the effective permeability of sand–shale reservoirs, **105**, 513
McKenzie, D. *see* Taymaz, T.
McMechan, G.A. *see* Chang, W.-F.
McMechan, G.A. *see* Sun, R.
Maguire, P.K.H. *see* Young, P.A.V.
Main, I.G. A modified Griffith criterion for the evolution of damage with a fractal distribution of crack lengths: application to seismic event rates and *b*-values, **107**, 353
Main, I.G., Meredith, P.G. Stress corrosion constitutive laws as a possible mechanism of intermediate-term and short-term seismic quiescence, **107**, 363
Main, I.G. *see* Ligdas, C.N.
Mäkinen, J. *see* Hinderer, J.
Mallick, S., Neil Frazer, L. Reflection/transmission coefficients and azimuthal anisotropy in marine seismic studies, **105**, 241
Mallick, S. *see* Berge, P.A.
Mareschal, J.-C. *see* Hamdani, Y.
Mareschal, M., Kurtz, R.D., Chouteau, M., Chakridi, R. A magnetotelluric survey on Manitoulin Island and Bruce Peninsula along GLIMPCE seismic line J: black shales mask the Grenville Front, **105**, 173
Marin, D. *see* Cliet, Ch.
Marquart, G. Interpretations of geoid anomalies around the Iceland hotspot, **106**, 149
Marshall, P.D. *see* Taylor, S.R.
Márton, P., Rozložník, L., Sasvári, T. Implications of a palaeomagnetic study of the Silica nappe, Slovakia, **107**, 67
Marvin, J.A. *see* Jackson, M.J.
Masters, G. *see* Widmer, R.
Matsuda, T. *see* Otofuji, Y.
Medhus, J. *see* Havskov, J.
Meissner, R., Brown, L. Seismic reflections from the Earth's crust; comparative studies of tectonic patterns, **105**, 1
Meissner, R., Wever, Th., Sadowiak, P. Continental collisions and seismic signature, **105**, 15
Meissner, R. *see* Sadowiak, P.
Menyeh, A., O'Reilly, W. The magnetization process in monoclinic pyrrhotite (Fe_7S_8) particles containing few domains, **104**, 387
Meredith, P.G. *see* Main, I.G.
Metcalfe, R. *see* Trench, A.
Miall, A.D. Principles of sedimentary basin analysis, **105**, 812
Michon, D. *see* Cliet, Ch.
Mitrovica, J.X., Peltier, W.R. A complete formalism for the inversion of post-glacial rebound data: resolving power analysis, **104**, 267
Mjelde, R. Analysis of shear waves with respect to splitting near the San Andreas Fault, **107**, 649
Moore, B.J. Seismic rays in media with slight lateral variation in velocity, **105**, 213
Morales, J. *see* Canas, J.A.
Moriceau, C. *see* Fleitout, L.
Morozov, L.A. *see* Porokhova, L.N.
Motoya, Y. *see* Iwasaki, T.
Mueller, M.C. Prediction of lateral variability in fracture intensity using multicomponent shear-wave surface seismic as a precursor to horizontal drilling in the Austin Chalk, **107**, 409
Mueller, St. *see* Valasek, P.
Müller, G. *see* Fang, Y.
Müller, R. *see* Appel, E.
Mullis, A.M. Depth of basalt fill and transient crater geometry for the Imbrium mascon basin, **105**, 777
Murthy, G.S. *see* Storetvedt, K.M.
Musgrave, R.J. Reply to comments by M. Idnurm on: 'A weighted least-squares fit of the Australian apparent polar wander path for the last 100 Myr', **106**, 695

Neele, F., Snieder, R. Are long-period body wave coda caused by lateral heterogeneity?, **107**, 131
Neil Frazer, L. *see* Mallick, S.
Nelson, K.D. A unified view of craton evolution motivated by recent deep seismic reflection and refraction results, **105**, 25
Nercessian, A., Hirn, A., Sapin, M. A correlation between earthquakes and eruptive phases at Mt Etna: an example and past occurrences, **105**, 131
Nercessian, A. *see* Hirn, A.
Niitsuma, H., Saito, H. Characterization of a subsurface artificial fracture by the triaxial shear shadow method, **107**, 485
Noel, M., Xu, B. Archaeological investigation by electrical resistivity tomography: a preliminary study, **107**, 95
Nolte, B. *see* Jacob, A.W.B.
Nowack, R.L., Psencik, I. Perturbation from isotropic to anisotropic heterogeneous media in the ray approximation, **106**, 1
Nowozynski, K., Ernst, T., Jankowski, J. Adaptive smoothing method for computer derivation of *K*-indices, **104**, 85

O'Dowd, R.J. The Wiener – Levinson algorithm and ill-conditioned normal equations, **106**, 399
Ogato, Y., Imoto, M., Katsura, K. 3-D spatial variation of *bb*-values of magnitude–frequency distribution beneath the Kanto District, Japan, **104**, 135
Okubo, S. Potential and gravity changes raised by point dislocation, **105**, 573
Oldenburg, D.W., Ellis, R.G. Inversion of geophysical data using an approximate inverse mapping, **105**, 325
Oldenburg, D.W. *see* Dosso, S.E.
Ooe, M. *see* Tamura, Y.
O'Reilly, W. *see* Menyeh, A.
Otofuji, Y., Itaya, T., Matsuda, T. Rapid rotation of southwest Japan—palaeomagnetism and K–Ar ages of Miocene volcanic rocks of southwest Japan, **105**, 397

Özdemir, Ö. *see* Gapeev, A.K.

Park, J. *see* Um, J.
Parker, R. *see* Constable, C.
Pasquale, V., Verdoya, M., Chiozzi, P. Lithospheric thermal structure in the Baltic shield, **106**, 611
Payo, G. *see* Canas, J.A.
Peirce, C., Barton, P.J. Crustal structure of the Madeira – Tore Rise, eastern North Atlantic—result of a DOBS wide- angle and normal incidence seismic experiment in the Josephine Seamount region, **106**, 357
Peltier, W.R. *see* Mitrovica, J.X.
Pingue, F. *see* De Natale, G.
Pinoteau, B. *see* Demongodin, L.
Piper, J.D.A. Siluro-Devonian palaeomagnetism, terrane emplacement and rotation in the Caledonides of western Ireland, **106**, 559
Pitilakis, K. *see* Gariel, J - C.
Plesinger, A. *see* Stammler, K.
Podvin, P., Lecomte, I. Finite difference computation of traveltimes in very contrasted velocity models: a massively parallel approach and its associated tools, **105**, 271
Pollack, H.N. *see* Jackson, M.J.
Pollack, H.N. *see* Sutton, S.T.
Pollitz, F.F. Multiple moment expansion of fully coupled aspherical earth seismograms, **106**, 275
Porokhova, L.N., Morozov, L.A., Vardanyants, I.L. Interpretation of magnetotelluric sounding data for the 2-D inhomogeneous model of the Earth, **106**, 77
Pous, J. *see* Zeyen, H.
Powell, C. McA. *see* Thrupp, G.A.
Price, N.J., Cosgrove, J.W. Analysis of geological structures, **105**, 285
Prodehl, C., see Jacob, A.W.B.
Psencik, I. *see* Nowack, R.L.
Pujades, L. *see* Canas, J.A.

Qiyuan, L. *see* Stammler, K.
Queen, J.H. *see* Liu, E.

Raiche, A. A pattern recognition approach to geophysical inversion using neural nets, **105**, 629
Rapalini, A.E., Vilas, J.F. Tectonic rotations in the Late Palaeozoic continental margin of southern South America determined and dated by palaeomagnetism, **107**, 333
Rathore, J.S. *see* Fjaer, E.
Regan, J. Seismic representation theorem coupling: synthetic *P – SV* mode sum seismograms for non-homogeneous paths, **106**, 587
Reyners, M., Gledhill, K., Waters, D. Tearing of the subducted Australian plate during the Te Anau, New Zealand, earthquake of 1988 June 3, **104**, 105
Ricard, Y., Wuming, B. Inferring the viscosity and the 3-D density structure of the mantle from geoid, topography and plate velocities, **105**, 561
Richards, M.A. *see* Wicks Jr, C, W.
Richardson, L. *see* Fearn, D.R.
Romanowicz, B. *see* Farra, V.
Ronen, S., Sorin, V., Bale, R. Spatial dealiasing of 3-D seismic reflection data, **105**, 503
Rösler, W. *see* Appel, E.
Rotstein, Y. *see* Hofstetter, A.
Rouland, D. *see* Léveque, J.J.
Rozložník, L. *see* Márton, P.
Rummel, R., Hipkin, R.G. Gravity, gradiometry, and gravimetry—symposium No. 103, International Association of Geodesy, Edinburgh, Scotland, August 8–10, 1989, **105**, 811
Ryberg, T. A new approach to describe the seismic wavefield using higher order Gaussian beam modes, **105**, 619

Sachpazi, M., Hirn, A. Shear-wave anisotropy across the geothermal field of Milos, Aegean volcanic arc, **107**, 673
Sadowiak, P., Wever, T., Meissner, R. Deep seismic reflectivity patterns in specific tectonic units of Western and Central Europe, **105**, 45
Sadowiak, P. *see* Meissner, R.
Safanda, J., Honek, J., Weiss, G., Bunterbarth, G. Palaeogeothermics in the Czechoslovak part of the Upper Silesian Basin, **104**, 625
Saito, H. *see* Niitsuma, H.
Sapin, M. *see* Hirn, A.
Sapin, M. *see* Nercessian, A.
Sasvári, T. *see* Márton, P.
Sato, H. Viscosity of the upper mantle from laboratory creep and anelasticity measurements in peridotite at high pressure and temperature, **105**, 587
Sato, K. *see* Smylie, D.E.
Sato, T. *see* Tamura, Y.
Scherneck, H.-G. A parametrized solid earth tide model and ocean tide loading effects for global geodetic baseline measurements, **106**, 677
Schmidt, P.W. *see* Camacho, A.
Schmidt, P.W. *see* Thrupp, G.A.
Schott, J.J., Turlot, J.C., Thomann, J. The fit of polar wander curves by small circles using Marquardt's algorithm: statistical properties, **105**, 731
Schubert, G. *see* Spohn, T.
Schuster, G.T. *see* Luo, Y.
Sen, M.K., Frazer, L.N. Multifold phase space path integral synthetic seismograms, **104**, 479
Sena, A.G. *see* Ben-Menahem, A.
Sharma, M.D. *see* Vashisth, A.K.
Shaw, S.M. *see* Woodworth, P.L.
Shcherbakov, V.P. *see* Gapeev, A.K.
Shilovsky, A.P. *see* Vanyan, L.L.
Shimamura, H. *see* Iwasaki, T.
Shuck, E.L. Azimuthal anisotropy analysis from shear VSPs, **107**, 639
Silver, P.G. *see* Clarke, T.J.
Simões-Filho, I.V. *see* Červený, V.
Simons, B. *see* Camacho, A.
Singh, S.C., Tarantola, A. WKBJ modelling for smoothly varying 3-D media, **106**, 391
Smethurst, M.A. *see* Torsvik, T.H.
Smethurst, M.A. *see* Trench, A.
Smith, B., Bonneville, A., Hamzaoui, R. Flow duration of a dike constrained by palaeomagnetic data, **106**, 621
Smylie, D.E., Szeto, A.M.K., Sato, K. Addendum and corrigendum to 'Elastic boundary conditions in long-period core oscillations' by D.E. Smylie, A.M.K. Szeto and Kachishige Sato, **105**, 553
Snieder, R. *see* Neele, F.
Soffel, H.C., Harzer, F. An Upper Carboniferous–Lower Permian (280 Ma) palaeomagnetic pole from the western margin of the Bohemian Massif, **105**, 547
Soler, T., van Gelder, B.H.W. On covariances of eigenvalues and eigenvectors of second-rank symmetric tensors, **105**, 537
Soloviev, S.L. *see* Dozorov, T.A.
Sorin, V. *see* Ronen, S.
Spakman, W. Delay-time tomography of the upper mantle below Europe, the Mediterranean, and Asia Minor, **107**, 309
Spohn, T., Schubert, G. Thermal equilibration of the Earth following a giant impact, **107**, 163
Spohn, T. *see* Yinting, L.
Stammler, K., Kind, R., Kosarev, G.L., Plesinger, A., Horálek, J., Qiyuan, L., Vinnik, L.-P.) Broadband observations of *PS* conversions from the upper mantle in Eurasia, **105**, 801
Storetvedt, K.M., Deutsch, E.R., Murthy, G.S. On the British Siluro-Devonian palaeomagnetic field problem: reply to comments by T. H. Torsvik *et al*, **105**, 475
Straub, A., Krückel, U., Gros, Y. Borehole electrical imaging and structural analysis in a granitic environment, **106**, 635
Sun, R., McMechan, G.A. Full-wavefield inversion of wide-aperture *SH* and Love wave data, **106**, 67
Sündermann, J. *see* Brosche, P.
Sutton, G.H. *see* Berge, P.A.
Sutton, S.T., Pollack, H.N., Jackson, M.J. Spherical harmonic representation of the gravitational potential of discrete spherical mass elements, **107**, 77
Sutton, S.T. *see* Jackson, M.J.
Szeto, A.M.K. *see* Smylie, D.E.

Takeda, M. Electric currents in the ocean induced by the geomagnetic Sq field and their effects on the estimation of mantle conductivity, **104**, 381
Takenaka, H. *see* Koketsu, K.
Tamura, Y., Sato, T., Ooe, M., Ishiguro, M. A procedure for tidal analysis with a Bayesian information criterion, **104**, 507
Tamura, Y. *see* Cummins, P.
Tarantola, A. *see* Singh, S.C.
Taylor, S.R., Marshall, P.D. Spectral discrimination between Soviet explosions and earthquakes using short-period array data, **106**, 265
Taymaz, T., Eyidoğan, H., Jackson, J. Source parameters of large earthquakes in the East Anatolian Fault Zone (Turkey), **106**, 537
Taymaz, T., Jackson, J., McKenzie, D. Active tectonics of the north and central Aegean Sea, **106**, 433
Tertychnyi, V.V. *see* Brodov, L.U.
Thomann, J. *see* Schott, J.J.
Thrupp, G.A., Kent, D.V., Schmidt, P.W., Powell, C. McA. Palaeomagnetism of red beds of the Late Devonian Worange Point Formation, SE Australia, **104**, 179
Tikhonov, A. *see* Cliet, Ch.
Tikhonov, A.A. *see* Brodov, L.U.
Torsvik, T.H., Trench, A. Ordovician magnetostatigraphy: Llanvirn–Caradoc limestones of the Baltic platform, **107**, 171
Torsvik, T.H., Trench, A., Smethurst, M.A. The British Siluro-Devonian Palaeofield, the Great Glen Fault and analytical methods in palaeomagnetism: comments on paper by K. M. Storetvedt *et al*, **105**, 467
Torsvik, T.H. *see* Trench, A.
Torsvik, T.H. *see* Walderhaug, H.J.
Trench, A., Torsvik, T.H. A revised Palaeozoic apparent polar wander path for Southern Britain (Eastern Avalonia), **104**, 227
Trench, A., Torsvik, T.H., Smethurst, M.A., Woodcock, N.H., Metcalfe, R. A palaeomagnetic study of the Builth Wells–Llandrindod Wells Ordovician inlier, Wales: palaeogeographic and structural implications, **105**, 477
Trench, A., Torsvik, T.H. The Lower Palaeozoic apparent polar wander path for Baltica: palaeomagnetic data from Silurian limestones of Gotland, Sweden, **107**, 373
Trench, A. *see* Torsvik, T.H.
Tscherning, C.C. Density–gravity covariance functions produced by overlapping rectangular blocks of constant density, **105**, 771
Tsuboi, S. *see* Hara, T.
Tsunakawa, H. *see* Zheng, Z.
Turlot, J.C. *see* Schott, J.J.

Um, J., Dahlen, F.A., Park, J. Normal mode multiplet coupling along a dispersion branch, **106**, 11
Urabe, T. *see* Iwasaki, T.

Vacquier, V. The origin of terrestrial heat flow, **106**, 199
Valasek, P., Mueller, St., Frei, W., Holliger, K. Results of NFP 20 seismic reflection profiling along the Alpine section of the European Geotraverse (EGT), **105**, 85
van der Hilst, R.D., Engdahl, E.R. On ISC *PP* and *p*P data and their use in delay-time tomography, **106**, 169
van Gelder, B.H.W. *see* Soler, T.
Vanyan, L.L., Yegorov, I.V., Shilovsky, A.P. Induction excitation of deep 3-D conducting zones, **105**, 295
Vardanyants, I.L. *see* Porokhova, L.N.
Vashisth, A.K., Sharma, M.D., Gogna, M.L. Reflection and transmission of elastic waves at a loosely bonded interface between an elastic solid and liquid-saturated porous solid, **105**, 601
Vasseur, G. *see* Demongodin, L.
Verdoya, M. *see* Pasquale, V.
Verhoef, J., Jackson, H.R. Admittance signatures of rifted and transform margins: examples from eastern Canada, **105**, 229
Vermeersen, L.L.A., Vlaar, N.J. Reply to 'Comment on 'The gravito-elastodynamics of a pre-stressed elastic earth' by L.L.A. Vermeersen and N.J. Vlaar' by R.J. Geller, **106**, 505
Vermeersen, L.L.A., Vlaar, N.J. The gravito-elastodynamics of a pre-stressed elastic earth, **104**, 555
Vidal, F. *see* canas, J.A.
Vilas, J.F. *see* Rapalini, A.E.
Viljanen, A. *see* Janhunen, P.
Vilotte, J.P. *see* Chery, J.
Vinnik, L.P. *see* Farra, V.
Vinnik, L.P. *see* Stammler, K.
Virieux, J., Ekström, G. Ray tracing on a heterogeneous sphere by Lie series, **104**, 11
Vlaar, N.J. *see* Vermeersen, L.L.A.

Wahr, J.M. *see* Cummins, P.
Walderhaug, H.J., Torsvik, T.H., Løvlie, R. Experimental CRM production in a basaltic rock; evidence for stable, intermediate palaeomagnetic directions, **105**, 747
Walsh, J.B. *see* Wong, T.-f.
Wassif, N.A. Palaeomagnetism and opaque mineral oxides of some basalt from west central Sinai, Egypt, **104**, 319
Waters, D. *see* Reyners, M.
Wei, Q. *see* Zheng, Z.
Weibel, P. *see* Fischer, G.
Weiss, G. *see* Safanda, J.
Westaway, R. Discussion of and correction to: Deformation of the NE Basin and Range Province: the response of the lithosphere to the Yellowstone plume?, **104**, 647
Westaway, R. Reply to comment by S. H. Lamb on 'Deformation of the NE Basin and Range Province: the response of the lithosphere to the Yellowstone plume?' by R. Westaway, **104**, 663
Westaway, R. *see* Jones, M.
Wever, T. *see* Sadowiak, P.
Wever, Th. *see* Bittner, R.
Wever, Th. *see* Meissner, R.
Wicks Jr, C.W., Richards,M.A. Effects of source radiation patterns on the phase $S_{670}P$ beneath the Tonga subduction zone, **107**, 279
Widder, R.W. *see* Appel, E.
Widmer, R., Masters, G., Gilbert, F. Spherically symmetric attenuation within the Earth from normal mode data, **104**, 541
Wild, P., Crampin, S. The range of effects of azimuthal isotropy and EDA anisotropy in sedimentary basins, **107**, 513
Windelberg, D. *see* Heuer, N.
Wittlinger, G. *see* Hirn, A.
Wohlenberg, J. *see* Emmermann, R.
Wolf, D. Viscoelastodynamics of a stratified, compressible planet: incremental field equations and short- and long-time asymptotes, **104**, 401
Wong, T.-f., Walsh, J.B. Deformation-induced gravity changes in volcanic regions, **106**, 513
Wood, C.A., Kienle, J. Volcanoes of North America, **105**, 809
Woodcock, N.H. *see* Trench, A.
Woodhouse, J.H. *see* Li, X-D.
Woodworth, P.L., Shaw, S.M., Blackman, D.L. Secular trends in mean tidal range around the British Isles and along the adjacent European coastline, **104**, 593
Wu, J., Yuen, D.A. Post-glacial relaxation of a viscously stratified compressible mantle, **104**, 331
Wuming, B. *see* Ricard, Y.

Xu, B. *see* Noel, M.

Yardley, G.S., Graham, G., Crampin, S. Viability of shear-wave amplitude versus offset studies in anisotropic media , **107**, 493
Yegorov, I.V. *see* Vanyan, L.L.
Yinting, L., Spohn, T. Vertical structure of the head of a cylindrical mantle plume from a model of two-phase flow with melting, **107**, 103
Young, P.A.V., Maguire, P.K.H., Laffoley, N.d'A., Evans, J.R. Implications of the distribution of seismicity near Lake Bogoria in the Kenya Rift, **105**, 665
Yuen, D. *see* Chery, J.
Yuen, D.A. *see* Wu, J.

Zanella, E. *see* Lanza, R.
Zatsepin, S.V. *see* Brodov, L.U.
Zatsepin, S.V. *see* Chesnokov, E.M.
Zeyen, H., Pous, J. A new 3-D inversion algorithm for magnetic total field anomalies, **104**, 583
Zhao, L.-S., Helmberger, D.V. Broadband modelling along a regional shield path, Harvard recording of the Saguenay earthquake, **105**, 301

Zhao, L.-S., Helmberger, D.V., Harkrider, D.G. Shear-velocity structure of the crust and upper mantle beneath the Tibetan Plateau and southeastern China, **105**, 713
Zhao, X., Ebel, J.E. Radiation pattern of crustal phases of New England earthquakes, **106**, 647
Zheng, Z., Kono, M., Tsunakawa, H., Kimura, G., Wei, Q., Zhu, X., Hao, T. The apparent polar wander path for the North China Block since the Jurassic, **104**, 29
Zhou, S. A model of thick plate deformation and its application to the isostatic movements due to surface, subsurface and internal loadings, **105**, 381
Zhu, X. *see* Zheng, Z.
Zollo, A., Bernard, P. Fault mechanisms from near-source data: joint inversion of *S* polarizations and *P* polarities, **104**, 441